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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:49:03 ; Search time 42 Seconds
(without alignments)
183.068 Million cell updates/sec

Title: US-10-826-788-2
Perfect score: 560
Sequence: 1 MASRAVQLLLVAAMSGCG.....SIGAAHLIFCCFRDLNSEL 103

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5A-COMB.pep:*
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5: /cgn2_6/prodata/1/iaa/PCITUS-COMB.pep:*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	560	100.0	103	2	US-08-448-561-4
2	444	79.3	81	2	US-08-448-561-1
3	133.5	23.8	123	4	US-09-698-705-17
4	133.5	23.8	123	4	US-09-698-705-19
5	130.5	23.3	123	3	US-09-203-939-7
6	130.5	23.3	123	3	US-09-251-835-7
7	130.5	23.3	123	3	US-09-318-503-7
8	130.5	23.3	123	3	US-09-038-261A-7
9	130.5	23.3	123	4	US-09-564-329A-7
10	130.5	23.3	123	4	US-09-963-620-7
11	130.5	23.3	123	4	US-09-855-632-7
12	130.5	23.3	123	4	US-09-934-773-7
13	128.5	22.9	123	3	US-09-203-939-4
14	128.5	22.9	123	3	US-09-251-835-4
15	128.5	22.9	123	3	US-09-318-503-4
16	128.5	22.9	123	3	US-09-038-261A-4
17	128.5	22.9	123	4	US-09-564-329A-4
18	128.5	22.9	123	4	US-09-963-620-4
19	128.5	22.9	123	4	US-09-855-632-4
20	128.5	22.9	123	4	US-09-934-773-4
21	122.5	21.9	123	3	US-09-203-939-2
22	122.5	21.9	123	3	US-09-251-835-2
23	122.5	21.9	123	3	US-09-318-503-2
24	122.5	21.9	123	3	US-09-038-261A-2
25	122.5	21.9	123	3	US-09-564-329A-2
26	122.5	21.9	123	3	US-09-963-620-2
27	122.5	21.9	123	3	US-09-855-632-2

28	122.5	21.9	123	3	US-09-038-261A-6	Sequence 6, Appli
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30	122.5	21.9	123	4	US-09-564-329A-6	Sequence 2, Appli
31	122.5	21.9	123	4	US-09-963-620-2	Sequence 2, Appli
32	122.5	21.9	123	4	US-09-963-620-6	Sequence 2, Appli
33	122.5	21.9	123	4	US-09-855-632-2	Sequence 2, Appli
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36	122.5	21.9	123	4	US-09-934-773-2	Sequence 1, Appli
37	122.5	21.9	123	4	US-09-934-773-6	Sequence 2, Appli
38	121.5	21.7	123	2	US-08-675-508-2	Sequence 2, Appli
39	108	19.3	115	4	US-09-513-999C-7845	Sequence 2, Appli
40	108	19.3	115	4	US-09-513-999C-7846	Sequence 7845, Ap
41	108	19.3	115	4	US-09-513-999C-7846	Sequence 7846, Ap
42	108	19.3	128	6	5179198-1	Sequence 7847, Ap
43	108	19.3	128	6	5179198-1	Patent No. 5179198
44	108	19.3	128	6	5521296-1	Patent No. 5521296
45	108	19.3	128	6	5179198-1	Patent No. 5179198
46	108	19.3	135	4	US-09-949-016-9460	Patent No. 5521296
47	105	18.8	126	2	US-08-675-508-20	Sequence 9460, Ap
48	102.5	18.3	131	1	US-08-154-916-2	Sequence 20, Appl
49	102.5	18.3	131	1	US-08-675-508-1	Sequence 2, Appli
50	102.5	18.3	131	2	US-09-139-424-2	Sequence 1, Appli
51	102.5	18.3	131	3	US-08-746-397-2	Sequence 2, Appli
52	102.5	18.3	131	3	US-09-203-939-5	Sequence 2, Appli
53	102.5	18.3	131	3	US-09-251-835-5	Sequence 5, Appli
54	102.5	18.3	131	3	US-09-318-503-5	Sequence 5, Appli
55	102.5	18.3	131	3	US-09-038-261A-5	Sequence 5, Appli
56	102.5	18.3	131	4	US-09-564-329A-5	Sequence 5, Appli
57	102.5	18.3	131	4	US-09-963-620-5	Sequence 5, Appli
58	102.5	18.3	131	4	US-09-855-632-5	Sequence 5, Appli
59	102.5	18.3	131	4	US-09-949-016-6211	Sequence 5, Appli
60	102.5	18.3	131	4	US-09-934-773-5	Sequence 6211, Ap
61	102.5	18.3	141	4	US-09-949-016-8741	Sequence 5, Appli
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63	95.5	17.1	79	1	US-08-154-916-3	Sequence 4705, Ap
64	94	16.8	160	4	US-09-949-016-9856	Sequence 3, Appli
65	92	16.4	105	3	US-09-591-435-12	Sequence 9856, Ap
66	91	16.2	77	4	US-09-612-314A-37	Sequence 12, Appl
67	91	16.2	82	4	US-09-612-314A-40	Sequence 37, Appl
68	91	16.2	83	4	US-09-612-314A-41	Sequence 40, Appl
69	91	16.2	103	1	US-08-271-562-1	Sequence 41, Appl
70	91	16.2	103	1	US-08-087-007-3	Sequence 1, Appli
71	91	16.2	103	2	US-08-696-777-1	Sequence 3, Appli
72	91	16.2	103	5	PCT-US92-05920-3	Sequence 1, Appli
73	91	16.2	103	5	US-09-612-314A-39	Sequence 3, Appli
74	90	16.1	70	4	US-09-612-314A-42	Sequence 39, Appl
75	90	16.1	71	4	US-08-746-397-11	Sequence 42, Appl
76	89	15.9	138	3	US-08-154-916-10	Sequence 11, Appl
77	89	15.9	76	1	US-08-154-916-11	Sequence 10, Appl
78	89	15.9	76	1	US-08-154-916-11	Sequence 11, Appl
79	89	15.9	117	3	US-09-227-357-238	Sequence 11, Appl
80	88.5	15.8	136	2	US-08-675-508-5	Sequence 238, App
81	87	15.5	121	3	US-09-591-435-13	Sequence 5, Appli
82	85.5	15.3	84	3	US-08-578-674-2	Sequence 13, Appl
83	85.5	15.3	84	3	US-09-498-346-2	Sequence 2, Appli
84	83.5	14.9	88	4	US-08-154-916-8	Sequence 2, Appli
85	81.5	14.6	79	1	US-09-513-999C-4687	Sequence 4687, Ap
86	80.5	14.4	140	4	US-09-252-991A-31170	Sequence 8, Appli
87	80.5	14.4	590	4	US-09-270-767-45038	Sequence 31170, A
88	80	14.3	117	4	US-09-270-767-47400	Sequence 45038, A
89	78.5	14.0	79	1	US-08-154-916-13	Sequence 47400, A
90	78.5	14.0	273	1	US-08-270-767-41968	Sequence 13, Appl
91	77.5	13.8	79	1	US-08-154-916-12	Sequence 12, Appl
92	77.5	13.8	127	4	US-09-252-991A-25856	Sequence 12, Appl
93	76.5	13.7	79	1	US-08-154-916-9	Sequence 25856, A
94	76	13.6	187	4	US-09-949-016-10507	Sequence 9, Appli
95	73.5	13.1	650	1	US-08-325-071-59	Sequence 10507, A
96	73.5	13.1	650	1	US-08-461-004A-59	Sequence 59, Appl
97	73.5	13.1	911	2	US-08-484-438-10	Sequence 59, Appl
98	73.5	13.1	1058	2	US-08-484-438-4	Sequence 10, Appl
99	73.5	13.1	1308	2	US-08-484-438-2	Sequence 4, Appli
100	73	13.0	742	4	US-09-252-991A-24289	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-448-561-4
; Sequence 1, Application US/08448561
; Patent No. 5908827
; GENERAL INFORMATION:
; APPLICANT: SIRNA, Antonio
; TITLE OF INVENTION: NEW PROTEIN FROM URINE NAMED COMPONENT B
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/448,561
; FILING DATE: 22-JAN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IT RM 92 A/919
; FILING DATE: 22-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: SIRNA=1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 103 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: URINE
; US-08-448-561-4

Query Match 100.0%; Score 560; DB 2; Length 103;
Best Local Similarity 100.0%; Pred. No. 1.6e-52;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASRWAVQLLLVAWSMGGEALKCYTCKEPMTSASCTITRCKPEDTACMTTLVTVEAE 60
Db 1 MASRWAVQLLLVAWSMGGEALKCYTCKEPMTSASCTITRCKPEDTACMTTLVTVEAE 60

Qy 61 YPFNQSPVVTSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
Db 61 YPFNQSPVVTSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 2
US-08-448-561-1
; Sequence 1, Application US/08448561
; Patent No. 5908827
; GENERAL INFORMATION:
; APPLICANT: SIRNA, Antonio
; TITLE OF INVENTION: NEW PROTEIN FROM URINE NAMED COMPONENT B
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.

COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/448,561
FILING DATE: 22-JAN-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 92 A/919
FILING DATE: 22-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: SIRNA=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 81 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: URINE
US-08-448-561-1

Query Match 79.3%; Score 444; DB 2; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.9e-40;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 23 LKCYTCKEPMTSASCTITRCKPEDTACMTTLVTVEAEYFNQSPVVTSCSSSCVATDP 82
Db 1 LKCYTCKEPMTSASCTITRCKPEDTACMTTLVTVEAEYFNQSPVVTSCSSSCVATDP 60

Qy 83 DSIGAHLIFCCFRDLNSEL 103
Db 61 DSIGAHLIFCCFRDLNSEL 81

RESULT 3
US-09-698-705-17
; Sequence 17, Application US/09698705
; Patent No. 6824780
; GENERAL INFORMATION:
; APPLICANT: Devaux, B.
; APPLICANT: Keller, G.
; APPLICANT: Koeppe, H.
; APPLICANT: Lasky, L.
; TITLE OF INVENTION: Anti-Tumor Antibody Compositions and Methods of Use
; FILE REFERENCE: P1777R1
; CURRENT APPLICATION NUMBER: US/09/698,705
; CURRENT FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/162,558
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/182,872
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO 17
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-09-698-705-17

Query Match 23.8%; Score 133.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 6.6e-07;
Matches 28; Conservative 15; Mismatches 44; Indels 5; Gaps 1;

QY 10 LLVAWSMGCCEALCKYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAEYFQNSPVV 69
Db 8 LLMAGLALQPGTALLCYSCKAQVSNEDCLNVNCTQPEQCWTERIRA-----VGLLTVI 62

QY 70 TRSCSSSCVATDPDSIGAHLIFCCFRDLCLNS 101
Db 63 SKGSSNCVDDSDQDYVYVKKNTCCDTDLCLNA 94

RESULT 4
US-09-698-705-19
; Sequence 19, Application US/09698705
; Patent No. 6824780
; GENERAL INFORMATION:
; APPLICANT: Devaux, B.
; APPLICANT: Keller, G.
; APPLICANT: Koepfen, H.
; APPLICANT: Lasky, L.
; TITLE OF INVENTION: Anti-Tumor Antibody Compositions and Methods of Use
; CURRENT APPLICATION NUMBER: US/09/698,705
; CURRENT FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/162,558
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/182,872
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO 19
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-09-698-705-19

Query Match 23.8%; Score 133.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 6.6e-07;
Matches 28; Conservative 15; Mismatches 44; Indels 5; Gaps 1;

QY 10 LLVAWSMGCCEALCKYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAEYFQNSPVV 69
Db 8 LLMAGLALQPGTALLCYSCKAQVSNEDCLNVNCTQPEQCWTERIRA-----VGLLTVI 62

QY 70 TRSCSSSCVATDPDSIGAHLIFCCFRDLCLNS 101
Db 63 SKGSSNCVDDSDQDYVYVKKNTCCDTDLCLNA 94

Query Match 23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLVAWSMGCCEALCKYCKEPMTSASCRITTRCKPEDTACMTT-----LVTVEAEYV 62
Db 7 LLLATYLAHPGAALQCYSCTAQMNNDCLNVQNCSLDQHSCTFSRIRAIGLVT----- 60

QY 63 FQNSPVVTRSCSSSCVATDPDS---IGAHLIFCCFRDLCLN 100
Db 61 -----VISKGCSSQC---EDDSYNYLKKXN-ITCCYSDCLN 93

RESULT 6
US-09-251-835-7
; Sequence 7, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54US12
; CURRENT APPLICATION NUMBER: US/09/251,835A
; CURRENT FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-251-835-7

Query Match 23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLVAWSMGCCEALCKYCKEPMTSASCRITTRCKPEDTACMTT-----LVTVEAEYV 62
Db 7 LLLATYLAHPGAALQCYSCTAQMNNDCLNVQNCSLDQHSCTFSRIRAIGLVT----- 60

QY 63 FQNSPVVTRSCSSSCVATDPDS---IGAHLIFCCFRDLCLN 100
Db 61 -----VISKGCSSQC---EDDSYNYLKKXN-ITCCYSDCLN 93

RESULT 7
US-09-318-503-7
; Sequence 7, Application US/09318503A
; Patent No. 6261791
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US13
; CURRENT APPLICATION NUMBER: US/09/318,503A
; CURRENT FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-318-503-7

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; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/564,329A
; CURRENT FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-564-329A-7

Query Match      23.3%; Score 130.5; DB 4; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

Qy      9 LLLVAASMGCEALKCYCKEPMTSASCRITITCKPEDTACMTT-----LVTVEAEP 62
Db      7 LLLATYLALHPGAALQCYSCTAQNNRDCLNVQNCSDLQHSCTSRIRAIGLVT----- 60

Qy      63 FNOQSPVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db      61 -----VISKGCSSQC---EDDSENYILGKKN-ITCCYSIDLN 93

RESULT 10
US-09-63-620-7
; Sequence 7, Application US/09963620
; Patent No. 6756036
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/963,620
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17

; EARLIER APPLICATION NUMBER: 09/038,261
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: 09/203,939
; EARLIER FILING DATE: 1998-12-02
; EARLIER APPLICATION NUMBER: 09/251,835
; EARLIER FILING DATE: 1999-02-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-318-503-7

Query Match      23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

Qy      9 LLLVAASMGCEALKCYCKEPMTSASCRITITCKPEDTACMTT-----LVTVEAEP 62
Db      7 LLLATYLALHPGAALQCYSCTAQNNRDCLNVQNCSDLQHSCTSRIRAIGLVT----- 60

Qy      63 FNOQSPVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db      61 -----VISKGCSSQC---EDDSENYILGKKN-ITCCYSIDLN 93

RESULT 8
US-09-038-261A-7
; Sequence 7, Application US/09038261A
; Patent No. 6267960
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/038,261A
; CURRENT FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-038-261A-7

Query Match      23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

Qy      9 LLLVAASMGCEALKCYCKEPMTSASCRITITCKPEDTACMTT-----LVTVEAEP 62
Db      7 LLLATYLALHPGAALQCYSCTAQNNRDCLNVQNCSDLQHSCTSRIRAIGLVT----- 60

Qy      63 FNOQSPVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db      61 -----VISKGCSSQC---EDDSENYILGKKN-ITCCYSIDLN 93

RESULT 9
US-09-564-329A-7
; Sequence 7, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
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/ CURRENT FILING DATE: 2001-05-14
/ PRIOR APPLICATION NUMBER: 09/564,329
/ PRIOR FILING DATE: 2000-05-03
/ PRIOR APPLICATION NUMBER: 09/359,326
/ PRIOR FILING DATE: 1999-07-20
/ PRIOR APPLICATION NUMBER: 08/814,279
/ PRIOR FILING DATE: 1997-03-10
/ PRIOR APPLICATION NUMBER: 60/071,141
/ PRIOR FILING DATE: 1998-01-12
/ PRIOR APPLICATION NUMBER: 60/074,675
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: 60/113,230
/ PRIOR FILING DATE: 1998-12-21
/ PRIOR APPLICATION NUMBER: 60/120,536
/ PRIOR FILING DATE: 1999-02-17
/ PRIOR APPLICATION NUMBER: 60/124,658
/ PRIOR FILING DATE: 1999-03-16
/ PRIOR APPLICATION NUMBER: 09/038,261
/ PRIOR FILING DATE: 1998-03-10
/ PRIOR APPLICATION NUMBER: 09/203,939
/ PRIOR FILING DATE: 1998-12-02
/ PRIOR APPLICATION NUMBER: 09/251,835
/ PRIOR FILING DATE: 1999-02-17
/ PRIOR APPLICATION NUMBER: 09/308,503
/ PRIOR FILING DATE: 1999-05-25
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 7
/ LENGTH: 123
/ TYPE: PRT
/ ORGANISM: MURINE PSCA (mpSCA)

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Query Match      23.3%; Score 130.5; DB 4; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY      9 LLLVAANSWGCEALKCVTKCEPMTSASCRITTRCKPEDTACMT-----LVTVEAEYP 62
      |||  ::  |||  |||  |||  :  :  :  :  :  :  |||
DB      7 LLLATYALHPGAALQCYCSCTAQMNRDCLNVQNCSLDQHSCTSRIRALGVT----- 60
      |||  ::  |||  |||  |||  :  :  :  :  :  :  |||

QY      63 FQNSPVVTRSCSSCVATDPDS-----IGAAHLIFCFRDLCN 100
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DB      61 -----VIGKGCSSQC---EDDSENYVLGKKN-ITCYSDLCN 93
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RESULT 13


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; TYPE: PRT
; ORGANISM: MURINE PSKA (mPSCA)
US-09-038-261A-4

Query Match      22.9%; Score 128.5; DB 3; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAWSMGCEALKCVCYCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db 7 ILLATYALHPGAALQCYSCYCTAQMNRDCLNVQNSLDQHSCTSRIRAIGLVT-----60

Qy 63 FQNSPVVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db 61 -----VISKGCSQC---EDDSENYLGKKN-ITCCYSDLCN 93

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RESULT 17
US-09-564-329A-4
; Sequence 4, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/564,329A
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSKA (mPSCA)
US-09-564-329A-4

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Query Match      22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAWSMGCEALKCVCYCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db 7 ILLATYALHPGAALQCYSCYCTAQMNRDCLNVQNSLDQHSCTSRIRAIGLVT-----60

Qy 63 FQNSPVVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
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RESULT 18

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US-09-963-620-4
; Sequence 4, Application US/09963620
; Patent No. 6756036
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/963,620
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSKA (mPSCA)
US-09-963-620-4

Query Match      22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAWSMGCEALKCVCYCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db 7 ILLATYALHPGAALQCYSCYCTAQMNRDCLNVQNSLDQHSCTSRIRAIGLVT-----60

Qy 63 FQNSPVVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db 61 -----VISKGCSQC---EDDSENYLGKKN-ITCCYSDLCN 93

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RESULT 19
US-09-855-632-4
; Sequence 4, Application US/09855632
; Patent No. 6790939
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/855,632
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279

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; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-855-632-4

Query Match      22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

QY      9  LLIVAAWSGCCGALKCYTCCKEPTWSASCRITIRCKPEDTACMTT-----LVTVEAEXP 62
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RESULT 20
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; Sequence 4, Application US/09934773
; Patent No. 6825326
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.5AUS14
; CURRENT APPLICATION NUMBER: US/09/934,773
; CURRENT FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:48:57 ; Search time 170 Seconds
(without alignments)
310.260 Million cell updates/sec

Title: US-10-826-788-2
Perfect score: 560
Sequence: 1 MASRWAVQLLVAAWSNGCG.....SIGAAHLIFCCPRDLNSEL 103

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Uniprot_03.*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
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2	556	99.3	103	2 Q6PUA6	Q6PUA6 homo sapien
3	400	71.4	110	1 SLUR_MOUSE	Q920X7 mus musculus
4	215	38.4	127	2 Q9DD23	Q9DD23 mus musculus
5	208.5	37.2	125	2 Q6UXB3	Q6UXB3 homo sapien
6	130.5	23.3	123	1 PSCA_MOUSE	P57096 mus musculus
7	130.5	23.3	123	2 Q9D7U0	Q9D7U0 mus musculus
8	122.5	21.9	119	2 Q6UW92	Q6UW92 homo sapien
9	122.5	21.9	123	1 PSCA_HUMAN	Q43653 homo sapien
10	113.5	20.3	124	2 Q8R155	Q8R155 mus musculus
11	112	20.0	129	2 Q920G7	Q920G7 mus musculus
12	111	19.8	131	1 LY6C_MOUSE	P09568 mus musculus
13	110	19.6	131	2 Q8C2D8	Q8C2D8 mus musculus
14	108	19.3	126	1 CD59_RAT	P27274 rattus norv
15	108	19.3	128	1 CD59_HUMAN	P13987 h cd59 glyc
16	107	19.1	111	2 Q9CQ11	Q9CQ11 mus muscu
17	105	18.8	126	2 Q6R5F7	Q6R5F7 xenopus lae
18	105	18.8	261	1 LY6E_CHICK	Q90986 gallus gall
19	102.5	18.3	131	1 LY6E_HUMAN	Q16553 homo sapien
20	102	18.2	131	2 Q91XG0	Q91XG0 homo sapien
21	100.5	17.9	97	2 Q86SR0	Q86SR0 homo sapien
22	100.5	17.9	127	1 LY6D_MOUSE	Q34559 mus musculus
23	100.5	17.9	128	1 LY6D_HUMAN	Q14210 homo sapien
24	99.5	17.8	131	2 Q8N5J9	Q8N5J9 homo sapien
25	99	17.7	126	1 CD59_PAPSP	Q28785 papio sp. (
26	98.5	17.6	124	1 CD59_RABIT	Q77541 cryptoleagus
27	98.5	17.6	134	1 LY6I_MOUSE	Q9WU67 mus musculus
28	98	17.5	128	1 CD59_CERAE	Q28216 cercopithec
29	98	17.5	128	2 Q8SQ46	Q8SQ46 macaca fasc
30	98	17.5	128	2 Q8SQ46	Q8SQ46 macaca fasc
31	95.5	17.1	260	2 Q9PU19	Q9PU19 xenopus lae

32	94	16.8	140	1	LY6H_HUMAN	Q94772 homo sapien
33	94	16.8	140	2	Q6IAX0	Q6IAX0 homo sapien
34	94	16.8	140	2	Q9CWP4	Q9CWP4 mus musculus
35	93.5	16.7	123	1	C59A_MOUSE	C55186 mus musculus
36	93.5	16.7	123	2	Q920G6	Q920G6 mus musculus
37	93	16.6	123	1	C59B_MOUSE	P58019 mus musculus
38	92.5	16.5	79	1	NXS6_PSETE	Q9W717 pseudonaja
39	92.5	16.5	79	1	NXS7_PSETE	Q9W716 pseudonaja
40	92	16.4	61	1	TXWA_NAJHA	P25678 najja haje a
41	92	16.4	86	1	Q8AY50	Q8AY50 bungarus ca
42	92	16.4	133	2	Q78EE7	Q78EE7 rattus norv
43	92	16.4	134	2	Q63318	Q63318 rattus norv
44	92	16.4	258	2	Q6IQW1	Q6IQW1 brachydanio
45	92	16.4	258	2	Q9DFZ0	Q9DFZ0 brachydanio
46	91.5	16.3	135	2	Q921Q3	Q921Q3 mus musculus
47	91	16.2	116	1	LYNX_MOUSE	Q9WRC2 mus musculus
48	90.5	16.2	134	1	LY6A_MOUSE	F04534 bungarus fa
49	90	16.1	63	1	NXS2_BUNFA	P14534 bungarus fa
50	89	15.9	86	2	Q8AY51	Q8AY51 bungarus ca
51	89	15.9	116	1	LYNX_HUMAN	Q9BZ99 homo sapien
52	88.5	15.8	79	1	NXS3_PSETE	Q9W7K0 pseudonaja
53	88.5	15.8	83	2	Q71TU2	Q71TU2 plethodon j
54	88.5	15.8	130	1	LY6E_MOUSE	Q64253 mus musculus
55	88.5	15.8	133	2	Q9CXN2	Q9CXN2 mus musculus
56	88.5	15.8	136	2	Q9JUA5	Q9JUA5 mus musculus
57	88.5	15.8	260	2	Q6F2E0	Q6F2E0 xenopus tro
58	88.5	15.8	2931	2	Q9W2C6	Q9W2C6 drosophila
59	88.5	15.8	2968	2	Q8MLU9	Q8MLU9 drosophila
60	88	15.7	123	1	CD59_PIG	Q62880 sus scrofa
61	87.5	15.6	79	1	NXS2_PSETE	Q9W7K1 pseudonaja
62	87.5	15.6	111	1	LY6G_MOUSE	P35461 mus musculus
63	87.5	15.6	145	2	Q17890	Q17890 caenorhabdi
64	87	15.5	118	1	LYNX_MACMU	P61050 macaca mula
65	86.5	15.4	134	1	LY6F_MOUSE	P35460 mus musculus
66	86	15.4	86	1	TXW6_NAJSP	O42256 najja sputat
67	86	15.4	119	2	Q64HX7	Q64HX7 oncorhynch
68	85.5	15.3	84	1	XEN1_XENLA	Q90922 xenopus lae
69	85.5	15.3	91	2	Q6TXT1	Q6TXT1 ctenopharyn
70	85.5	15.3	134	2	Q6MG58	Q6MG58 rattus norv
71	85.5	15.3	174	1	KR92_HUMAN	Q9PYQ4 homo sapien
72	85.5	15.3	185	2	Q9VK99	Q9VK99 drosophila
73	85	15.2	55	2	Q6PBG1	Q6PBG1 mus musculus
74	85	15.2	86	1	TXW5_NAJSP	O42255 najja sputat
75	85	15.2	86	1	TXW8_NAJSP	Q802B3 najja sputat
76	85	15.2	139	1	LY6H_MOUSE	Q9WUC3 mus musculus
77	85	15.2	160	2	Q8K356	Q8K356 mus musculus
78	84	15.0	86	1	TXW9_NAJSP	Q9W713 najja sputat
79	83.5	14.9	99	2	Q9D248	Q9D248 mus musculus
80	83.5	14.9	136	2	Q6AY73	Q6AY73 rattus norv
81	83.5	14.9	173	2	Q6ISF6	Q6ISF6 homo sapien
82	83	14.8	86	2	Q8AY49	Q8AY49 bungarus ca
83	83	14.8	128	1	CD59_AOTTR	P51447 aotus trivi
84	83	14.8	128	1	CD59_CALSQ	P46657 callithrix
85	83	14.8	147	2	Q9VTH9	Q9VTH9 drosophila
86	82.5	14.7	79	1	NXS1_PSETE	Q9W7K2 pseudonaja
87	82.5	14.7	131	1	CD59_SAISS	P47777 saimiri sci
88	82.5	14.7	134	2	Q8BPB0	Q8BPB0 mus musculus
89	82	14.6	85	2	Q6IZ95	Q6IZ95 bungarus ca
90	82	14.6	135	2	Q83317	Q83317 rattus norv
91	81.5	14.6	81	2	Q71TU1	Q71TU1 plethodon j
92	81.5	14.6	99	1	SVS7_MOUSE	Q90988 mus musculus
93	81.5	14.6	111	2	Q95ZS9	Q95ZS9 caenorhabdi
94	81.5	14.6	184	2	Q6P3T2	Q6P3T2 homo sapien
95	81.5	14.6	184	2	Q86W15	Q86W15 homo sapien
96	81.5	14.6	209	2	Q8W1V6	Q8W1V6 homo sapien
97	81	14.5	86	1	TXW1_NAJAT	Q8V16 homo sapien
98	81	14.5	191	2	Q96368	P60814 najja atra (
99	80.5	14.4	89	1	NXG1_BUNMU	Q96368 schistosoma
100	80.5	14.4	89	1	NXG2_BUNMU	Q9VGJ0 bungarus mu
						Q9W796 bungarus mu

ALIGNMENTS

CC -1- TISSUE SPECIFICITY: Granulocytes. Expressed in skin.
CC -1- DISEASE: Defects in SLURP1 are a cause of Mal de Meleda (MDM)
CC [MIM:248300]. MDM is a rare autosomal recessive skin disorder,
CC characterized by transgressive palmoplantar keratoderma (PPK),
CC keratotic skin lesions, perioral erythema, brachydactyly and nail
CC abnormalities.
CC -1- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -1- CAUTION: It is not certain that ARS and ANUP are identical
CC proteins.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
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CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; X99977; CAA68237.1; --
CC EMBL; BC069292; AAH69292.1; --
CC PIR; A59031; A59031.
CC MIM; 606119; --
CC MIM; 248300; --
CC GO; GO:0005576; C:extracellular; NAS.
CC GO; GO:0005125; F:cytokine activity; NAS.
CC InterPro; IPR003632; Ly-6 CD59.
CC InterPro; IPR001526; Ly6 UPAR.
CC Pfam; PF00021; UPAR_Ly6; 1.
CC ProDom; PD003128; Ly-6 CD59; 1.
CC SMART; SM00334; LU_1_CD59; 1.
CC PROSITE; PS00983; Ly6_UPAR; FALSE NEG.
CC Cytokine; Direct protein sequencing; Signal.
CC SIGNAL 1 21
CC CHAIN 22 103 Secreted Ly-6/uPAR related protein 1.
CC DOMAIN 24 73 UPAR/Ly6.
CC DISULFID 25 50 Potential.
CC DISULFID 28 37 Potential.
CC DISULFID 43 73 Potential.
CC DISULFID 77 93 Potential.
CC DISULFID 94 99 Potential.
CC CONFLICT 22 22 S -> Q (in Ref. 3).
CC CONFLICT 36 36 S -> A (in Ref. 3).
CC FT SEQUENCE 103 AA; 11186 MW; 07AAF6BCA8031282 CRC64;
CC SQ
Query Match 100.0%; Score 560; DB 1; Length 103;
Best Local Similarity 100.0%; Pred. No. 4.7e-50;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASRWAVQLLVAAWSMCGEALCYCKEPTASCRITTRCKPEDTACMTTLVTVEAE 60
Db 1 MASRWAVQLLVAAWSMCGEALCYCKEPTASCRITTRCKPEDTACMTTLVTVEAE 60
QY 61 YPFNQSPVWTRSCSSCVATPDPSIGAAHLIFCCFRDLCSNEL 103
Db 61 YPFNQSPVWTRSCSSCVATPDPSIGAAHLIFCCFRDLCSNEL 103
RESULT 2
Q6PUA6 PRELIMINARY; PRT; 103 AA.
AC Q6PUA6
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE SLURP1.
GN Name=ARS;
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;

CC -1- TISSUE SPECIFICITY: Granulocytes. Expressed in skin.
CC -1- DISEASE: Defects in SLURP1 are a cause of Mal de Meleda (MDM)
CC [MIM:248300]. MDM is a rare autosomal recessive skin disorder,
CC characterized by transgressive palmoplantar keratoderma (PPK),
CC keratotic skin lesions, perioral erythema, brachydactyly and nail
CC abnormalities.
CC -1- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -1- CAUTION: It is not certain that ARS and ANUP are identical
CC proteins.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; X99977; CAA68237.1; --
CC EMBL; BC069292; AAH69292.1; --
CC PIR; A59031; A59031.
CC MIM; 606119; --
CC MIM; 248300; --
CC GO; GO:0005576; C:extracellular; NAS.
CC GO; GO:0005125; F:cytokine activity; NAS.
CC InterPro; IPR003632; Ly-6 CD59.
CC InterPro; IPR001526; Ly6 UPAR.
CC Pfam; PF00021; UPAR_Ly6; 1.
CC ProDom; PD003128; Ly-6 CD59; 1.
CC SMART; SM00334; LU_1_CD59; 1.
CC PROSITE; PS00983; Ly6_UPAR; FALSE NEG.
CC Cytokine; Direct protein sequencing; Signal.
CC SIGNAL 1 21
CC CHAIN 22 103 Secreted Ly-6/uPAR related protein 1.
CC DOMAIN 24 73 UPAR/Ly6.
CC DISULFID 25 50 Potential.
CC DISULFID 28 37 Potential.
CC DISULFID 43 73 Potential.
CC DISULFID 77 93 Potential.
CC DISULFID 94 99 Potential.
CC CONFLICT 22 22 S -> Q (in Ref. 3).
CC CONFLICT 36 36 S -> A (in Ref. 3).
CC FT SEQUENCE 103 AA; 11186 MW; 07AAF6BCA8031282 CRC64;
CC SQ
Query Match 100.0%; Score 560; DB 1; Length 103;
Best Local Similarity 100.0%; Pred. No. 4.7e-50;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASRWAVQLLVAAWSMCGEALCYCKEPTASCRITTRCKPEDTACMTTLVTVEAE 60
Db 1 MASRWAVQLLVAAWSMCGEALCYCKEPTASCRITTRCKPEDTACMTTLVTVEAE 60
QY 61 YPFNQSPVWTRSCSSCVATPDPSIGAAHLIFCCFRDLCSNEL 103
Db 61 YPFNQSPVWTRSCSSCVATPDPSIGAAHLIFCCFRDLCSNEL 103
RESULT 2
Q6PUA6 PRELIMINARY; PRT; 103 AA.
AC Q6PUA6
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE SLURP1.
GN Name=ARS;
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;

RESULT 1
SLURP_HUMAN STANDARD; PRT; 103 AA.
AC P55000; Q92483;
DT 01-OCT-1996 (Rel. 34, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 23-OCT-2004 (Rel. 45, Last annotation update)
DE Secreted Ly-6/uPAR related protein 1 precursor (SLURP-1) (ARS
DE component B) (ARS(Complement B)-81/S) (Anti-neoplastic urinary protein)
DE (ANUP).
GN Name=SLURP1; Synonymus=ARS;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RA Mastrangeli R.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
[2]
SEQUENCE FROM N.A.
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan F.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grinstead J., Schmutz J., Myers R.M.,
RA Butterfield A.S., Krzywinski M.I., Skalska U., Smalusz D.E.,
RA Schnerch A., Schen J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[3]
SEQUENCE OF 22-36.
TISSUE=Granulocyte;
RX MEDLINE=96351837; PubMed=8742060; DOI=10.1006/cyto.1996.0001;
RA Ridge R.J., Sloane N.H.;
RT "Partial N-terminal amino acid sequence of the anti-neoplastic urinary
RT protein (ANUP) and the anti-tumour effect of the N-terminal
RT nonapeptide of the unique cytokine present in human granulocytes.";
RL Cytokine 8:1-5(1996).
[4]
PARTIAL SEQUENCE.
RX MEDLINE=99226809; PubMed=10211827;
RA Andermann K., Wattler F., Wattler S., Heine G., Meyer M.,
RA Forsmann W.-G., Nehls M.;
RT "Structural and phylogenetic characterization of human SLURP-1, the
RT first secreted mammalian member of the Ly-6/uPAR protein
RT superfamily.";
RL Protein Sci. 8:810-819(1999).
[5]
DISEASE.
RX MEDLINE=21181711; PubMed=11285253; DOI=10.1093/hmg/10.8.875;
RA Fischer J., Bouadjir B., Heilig R., Huber M., Lefevre C., Jobard F.,
RA Macari F., Bakija-Konsuo A., Alt-Belkacem F., Weissenbach J.,
RA Lathrop M., Hohl D., Prud'homme J.-F.;
RT "Mutations in the gene encoding SLURP-1 in Mal de Meleda.";
RL Hum. Mol. Genet. 10:875-880(2001).
CC -1- FUNCTION: Has an antitumor activity.
CC -1- SUBUNIT: Homodimer.
CC -1- SUBCELLULAR LOCATION: Secreted.

```
RA Arredondo J., Grando S.;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY579079; AAT01436.1; -.
DR InterPro; IPR003632; Ly-6 CD59.
DR Pfam; PF00021; UPAR_Ly6; 1.
DR ProDom; PD003128; Ly-6_CD59; 1.
SQ SEQUENCE 103 AA; 11154 MW; 1D185DA603030392 CRC64;

Query Match 99.3%; Score 556; DB 2; Length 103;
Best Local Similarity 99.0%; Pred. No. 1.2e-49;
Matches 102; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASRWAVOLLVLAAMSGCEALKCYCKEPMTSASCRITTRCKPBDTACMTTLVTVEAE 60
DB 1 MASRWAVOLLVLAAMSGCEALKCYCKEPMTSASCRITTRCKPBDTACMTTLVTVEAE 60

QY 61 YPFNQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRDLCSNEL 103
DB 61 YPFNQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRDLCSNEL 103

RESULT 3
SLUR_MOUSE STANDARD; PRT; 110 AA.
AC Q9ZOK7;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Secreted Ly-6/uPAR related protein 1 precursor (SLURP-1) (ARS
  Component B).
GN Name=Slurp1; Synonym=ARS;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c;
RA Vaccaro R., Renda T., Bressan A., Micangeli E., Milazzo F., Ciolli V.,
RA Biffoni M., El Tayar N., Lisciani R., Borrelli F., Martelli F.,
RA Serani S., Papoiaru R.;
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Kongaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maitais L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Perteau G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Sempile C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA Wu Ming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
RA Hara A., Hashizume W., Imotani K., Ighii Y., Itoh M., Kagawa I.,

Query Match 71.4%; Score 400; DB 1; Length 110;
Best Local Similarity 69.3%; Pred. No. 1.5e-33;
Matches 70; Conservative 11; Mismatches 20; Indels 0; Gaps 0;

QY 1 MASRWAVOLLVLAAMSGCEALKCYCKEPMTSASCRITTRCKPBDTACMTTLVTVEAE 60
DB 1 MTLRWAMWLLLLAAWSMGYGEAFRCYTCEQPTAINSCKNIAQCKMEDTACKTTLVETVEAA 60

QY 61 YPFNQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRDLCSNEL 101
DB 61 FFFNHSPMVTTRSCSSCVATDPDSIGAHLIFCCFRDLCSNEL 101

RESULT 4
Q9DD23 PRELIMINARY; PRT; 127 AA.
AC Q9DD23;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Mus musculus adult male kidney cDNA, RIKEN full-length enriched
  library, clone:0610005K03 product:hypothetical CD59 antigen containing
  protein, full insert sequence.
GN Name=0610005K03Rik;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Kidney;
RX MEDLINE=92279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
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Qy      9 LLLVAWSMGCGEALKCYCKPEMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db      7 LLLATYLALHPGAALQCYSCTAQMNRDCLNVQNCSLDQSCTSRIRAGLVLT-----60

Qy     63 FNSQPVTVRSCSSSVAVDPDS-----IGAAHLIFCCFRDLGN 100
Db     61 -----VISKGCSSC---EDDSENYVLGKN-ITCYSDLGN 93


RESULT 8
QGUMW92
ID       Q6UW92    PRELIMINARY;          PRT;   119 AA.
AC       Q6UW92;
DT       05-JUL-2004 (TrEMBLrel. 27, Created)
DT       05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT       05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE       Prostate stem cell A (Fragment).
GN       ORFNames=UNQ206;
OS       Homo sapiens (Human).
OC       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC       Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
RN       [1]
RP       SEQUENCE FROM N.A.
RX       MEDLINE=22987296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA       Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA       Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA       Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA       Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA       Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA       Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA       Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
RA       Xi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA       Godowski P.;
RT       "The secreted protein discovery initiative (SPDI), a large-scale
RT       effort to identify novel human secreted and transmembrane proteins: a
RT       bioinformatics assessment."
RL       Genome Res. 13:2265-2270(2003).
DR       ENBL; AY358912; AQO89271.1; -.
DR       InterPro; IPR001526; LY6_UPAR.
DR       Pfam; PF00021; UPAR_LY6; 1.
DR       SMART; SM00134; LU; 1.
FT       NON TER        1
SQ       SEQUENCE      119 AA; 12482 MW; 45FF1DAC0F80168E CRC64;

Query Match                21.9%; Score 122.5; DB 2; Length 119;
Best Local Similarity      29.3%; Pred. No. 6.2e-05;
Matches 27; Conservative 14; Mismatches 46; Indels 5; Gaps 1;

Qy      10 LLVAWSMGGEALKCYCKPEMTSASCRITTRCKPEDTACMTTLTVTVEAEYFPNQSPV 69
Db      4 LLMAGLAQPTALLCYSCAQVSNECDQLQVENTQLGECWTARIRA----VGLLTVI 58

Qy     70 TRSCSSCVATPDSIGAHLIFCCFRDLGNS 101
Db     59 SKGSCLNVDSDQDYVVYGKKNTTCDDTLGNA 90


RESULT 9
PSCA_HUMAN
ID       ID_PSCA_HUMAN STANDARD;          PRT;   123 AA.
AC       O43653;
DT       16-OCT-2001 (Rel. 40, Created)
DT       16-OCT-2001 (Rel. 40, Last sequence update)
DT       25-JAN-2005 (Rel. 46, Last annotation update)
DE       Prostate stem cell antigen precursor.
GN       Name=PSCA;
OS       Homo sapiens (Human).
OC       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC       Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
RN       [1]
RP       SEQUENCE FROM N.A.
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SQ	SEQUENCE	123 AA; 12912 MW; 3FC1271742D657FA CRC64;	
	Query Match	21.9%; Score 122.5; DB 1; Length 123;	
	Best Local Similarity	29.3%; Pred. No. 6.4e-05;	
	Matches	27; Conservative 14; Mismatches 46; Indels 5; Gaps 1;	
QY	10	LLVAWSMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLTVVEAEYFNFQSPVV 69	
DB	8	LLMAGLALQPTALLCYSCKAQVSNEDCLQVNCITQLGEOCWTRARA-----VGLITVI 62	
QY	70	TRSCSSCVATDPDSIGAHLIFCCFRDLNS 101	
DB	63	SKGCSLNCVDDSDQYVVGKKNITCCDIDLNA 94	
RESULT 10			
Q8R155			
ID	Q8R155	PRELIMINARY; PRT; 124 AA.	
AC	Q8R155		
DT	01-JUN-2002 (TrEMBLrel. 21, Created)		
DT	01-JUN-2002 (TrEMBLrel. 21, Last sequence update)		
DT	01-MAR-2004 (TrEMBLrel. 26, Last annotation update)		
DE	CDNA sequence BC025446.		
GN	Name=BC025446;		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=FVB/N; TISSUE=Liver;		
RC	MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;		
RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,		
RA	Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,		
RA	Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,		
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,		
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,		
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,		
RA	Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Frange C.,		
RA	Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,		
RA	Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,		
RA	Richardson S., Worley K.C., Hale S.E., Garcia A.M., Gay L.J., Hulyk S.W.,		
RA	Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,		
RA	Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,		
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,		
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,		
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,		
RA	Krzywinski M.I., Skalska J., Smalilus D.E., Schnerch A., Schein J.E.,		
RA	Jones S.J., Marra M.A.;		
RT	"Generation and initial analysis of more than 15,000 full-length human		
RT	and mouse cDNA sequences."		
RL	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).		
RN	[2]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=FVB/N; TISSUE=Liver;		
RC	Strausberg R.;		
RL	Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.		
DR	EMBL; BC025446; AAH25446.1; -		
DR	MGI; 2385015; BC025446.		
DR	InterPro; IPR003632; LY-6 CD59.		
DR	InterPro; IPR001526; LY6 UPAR.		
DR	Pfam; PF00021; UPAR LY6; 1.		
DR	ProDom; PD003128; LY-6_CD59; 1.		
DR	SMART; SM00134; LU; 1.		
DR	PROSITE; PS00983; LY6 UPAR; 1.		
SQ	SEQUENCE 124 AA; 13401 MW; C53338BD584177B0 CRC64;		
	Query Match	20.3%; Score 113.5; DB 2; Length 124;	
	Best Local Similarity	33.6%; Pred. No. 0.00055;	
	Matches	36; Conservative 15; Mismatches 43; Indels 13; Gaps 6;	
QY	2	ASRWAVQLLVAAWSMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLTVVEAEY 61	

MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;

Carninci P., Hayashizaki Y.;

"High-efficiency full-length cDNA cloning.";

Meth. Enzymol. 303:19-44(1999).

[2]

SEQUENCE FROM N.A.

STRAIN=NOD; TISSUE=Thymus;

MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;

Riken Consortium;

"Functional annotation of a full-length mouse cDNA collection.";

Nature 409:685-690(2001). [3]

SEQUENCE FROM N.A.

STRAIN=NOD; TISSUE=Thymus;

The FANTOM Consortium,

the RIKEN Genome Exploration Research Group Phase I & II Team;

"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";

Nature 420:563-573(2002). [4]

SEQUENCE FROM N.A.

STRAIN=NOD; TISSUE=Thymus;

MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;

Carninci P., Shibata K., Hayatsu M., Sugahara Y., Shibata K., Itoh H., Konno H., Akiyama J., Nishi K., Kitsumai T., Tashiro H., Ito M., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watanabe M., Onoda Y., Ishikawa T., Ozawa K., Tanaka T., Matsushima Y.;

Kazakura Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

"RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";

Genome Res. 10:1757-1771(2000). [5]

SEQUENCE FROM N.A.

STRAIN=NOD; TISSUE=Thymus;

MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

Shibata K., Itoh M., Aizawa K., Nagaoaka S., Sasaki N., Carninci P., Konno H., Akiyama J., Nishi K., Kitsumai T., Tashiro H., Ito M., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watanabe M., Onoda Y., Ishikawa T., Ozawa K., Tanaka T., Matsushima Y.;

Kazakura Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

"RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";

Genome Res. 10:1757-1771(2000). [6]

SEQUENCE FROM N.A.

STRAIN=NOD; TISSUE=Thymus;

Akachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P., Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W., Hayashida K., Hayatsu M., Hiramoto K., Hirooka T., Hirozane T., Horie F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T., Katoh H., Kawaji J., Koike Y., Kondo S., Konno H., Koyama S., Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M., Naito K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y., Saiki D., Shibauchi F., Shinagawa A., Shiraki T., Sobue Y., Tagami M., Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;

Submitted (APR-2002); to the EMBL/GenBank/DDJB databases.

EMBL; AKO88782; BAC40570.1; -

GMD; MG1:96882; LY6C.

GO; GO:0009897; Cytoplasmic side of plasma membrane; IDA.

GO; GO:0005615; Extracellular space; TAS.

InterPro; IPRO01526; LY6 UPAR.

Pfam; PF00021; UPAR_LY6; 1.

SMART; SMART0134; LU; 1.

PROSITE; PS00983; LY6 UPAR; 1.

SEQUENCE 131 AA; 14120 MW; DB6C63ASB7FIDC98 CRC64;

Db 11 VLILLVALLCAGRAQGLQCYGVPIETSCPAVT-CRASDGFCAIQ--NIELIEDSQRR 67
QY 67 PVVTRSCSSCVA-----TDPDSIGAHLIFCCFRDLGNS 101
Db 68 KLKTRQCLSCFPAGVPIRDEN---IRERTSCSSEDLGNA 103

RESULT 14
CD59 RAT
ID_CD59 RAT STANDARD; PRT; 126 AA.
AC P27274;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE CD59 glycoprotein precursor (Membrane attack complex inhibition factor) (MACIF) (MAC-inhibitory protein) (MAC-IP) (Protectin).
GN Name=CD59;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 23-64.
RC STRAIN=Sprague-Dawley; TISSUE=Kidney;
RX MEDLINE=95091697; PubMed=7528012;
RA Rushmere N.K., Harrison R.A., van den Berg C.W., Morgan B.P.;
RT "Molecular cloning of the rat analogue of human CD59: structural comparison with human CD59 and identification of a putative active site."
RT Biochem. J. 304:595-601(1994).
RL [2]
RP SEQUENCE OF 23-37.
RC TISSUE=Erythrocyte;
RX MEDLINE=92286999; PubMed=1376109;
RA Hughes T.R., Fiddlesden S.J., Williams J.D., Harrison R.A., Morgan B.P.;
RT "Isolation and characterization of a membrane protein from rat erythrocytes which inhibits lysis by the membrane attack complex of rat complement."
RT Biochem. J. 284:169-176(1992).
RL
CC -!- FUNCTION: Potent inhibitor of the complement membrane attack complex (MAC) action. Acts at or after the C5b-8 stage of MAC assembly.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- PTM: N-glycosylated.
CC -!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC
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CC
CC EMBL; U48255; AAA88909.1; -.
DR PIR; S53340; S53340.
DR HSP; P13987; IERG.
DR RGD; 2311; CD59.
DR InterPro; IPR003632; Ly-6 CD59.
DR InterPro; IPR001526; Ly6 UPAR.
DR Pfam; PF00021; UPAR_Ly6_1.
DR ProDom; PD003128; Ly-6_CD59; 1.
DR SMART; SM00134; LU; 1.
DR PROSITE; PS00983; Ly6 UPAR; 1.
KW Antigen; Direct protein sequencing; Glycoprotein; GPI-anchor; Lipoprotein; Signal.
FT SIGNAL 1 22
FT CHAIN 23 101 CD59 glycoprotein.
FT PROPEP 102 126 Removed in mature form (By similarity).
FT LIPID 101 101 GPI-anchor amidated asparagine (By similarity).
FT DOMAIN 23 110 UPAR/Ly6.

FT DISULFID 25 48 By similarity.
FT DISULFID 28 35 By similarity.
FT DISULFID 41 61 By similarity.
FT DISULFID 67 85 By similarity.
FT DISULFID 86 91 By similarity.
FT CARBOHYD 38 28 N-linked (GlcNAc...) (Potential).
SQ SEQUENCE 126 AA; 13790 MM; 54B9CS9AB2073005 CRC64;
Query Match 19.3%; Score 108; DB 1; Length 126;
Best Local Similarity 30.7%; Pred. No. 0.002;
Matches 31; Conservative 20; Mismatches 40; Indels 10; Gaps 5;
QY 1 MASRWAVQLLLVAVSMGCEALKCYTCKEPTWSACRTITRCKPDTACTMTLTVTVEAE 60
Db 1 MPAARRGFILLLLAVLCSTGSLVRCYNCLDPV--SSCKTNSCTSPNLDAC---LVAVSGK 55
QY 61 YPFNOSPVVTRSCSSCVATDPDSIGAHLIF-CCFRDLG 100
Db 56 QVYQCWRFS-DCNAKFIILS---RLRIANVQYRCQADLCN 92

RESULT 15
CD59 HUMAN
ID_CD59 HUMAN STANDARD; PRT; 128 AA.
AC P13987;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-JAN-1990 (Rel. 13, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE CD59 glycoprotein precursor (Membrane attack complex inhibition factor) (MACIF) (MAC-inhibitory protein) (MAC-IP) (MEM43 antigen) (Protectin) (Membrane inhibitor of reactive lysis) (MIRL) (20 kDa homologous restriction factor) (HRF-20) (HRF20) (1P5 antigen).
GN Name=CD59;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=T-cell;
RX MEDLINE=89361238; PubMed=2475570;
RA Davies A., Simmons D.L., Hale G., Harrison R.A., Tighe H., Lachmann P.J., Waldmann H.;
RT "CD59, an LY-6-like protein expressed in human lymphoid cells, regulates the action of the complement membrane attack complex on homologous cells."
RT J. Exp. Med. 170:637-654(1989).
RL [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=90168959; PubMed=1689664;
RA Philbrick W.M., Palfrey R.G.E., Roger G.E., Maher S.E., Bridgett M.M., Sirlin S., Bothwell A.L.M.;
RT "The CD59 antigen is a structural homologue of murine Ly-6 antigens but lacks interferon inducibility."
RT Eur. J. Immunol. 20:87-92(1990).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=89350983; PubMed=2475111;
RA Okada H., Nagami Y., Takahashi K., Okada N., Hideshima T., Takizawa H., Kondo J.;
RT "20 kDa homologous restriction factor of complement resembles T cell activating protein."
RT Biochem. Biophys. Res. Commun. 162:1553-1559(1989).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=90110046; PubMed=2608909;
RA Sugita Y., Tobe T., Oda E., Tomita M., Yasukawa K., Yamaji N., Takemoto T., Furuichi K., Takayama M., Yano S.;
RT "Molecular cloning and characterization of MACIF, an inhibitor of membrane channel formation of complement."
RT J. Biochem. 106:555-557(1989).
RN [5]
RP SEQUENCE FROM N.A.

J. Exp. Med. 185:507-516(1997).
[13] IDENTIFICATION OF COMPLEMENT INHIBITORY DOMAIN.
MEDLINE=97383147; PubMed=9235986; DOI=10.1021/bi970832i;
RX Yu J., Dong S., Rushmere N.K., Morgan B.P., Abagyan R., Tomlinson S.;
RA "Mapping the regions of the complement inhibitor CD59 responsible for
RT its species selective activity."
RT Biochemistry 36:9423-9428(1997).
[14] STRUCTURE OF CARBOHYDRATES AND GPI-ANCHOR, AND SEQUENCE OF N-TERMINUS.
RX MEDLINE=97207284; PubMed=9054419; DOI=10.1074/jbc.272.11.7229;
RX Rudd P.M., Morgan B.P., Wormald M.R., Harvey D.J., van den Berg C.W.,
RA Davis S.J., Ferguson M.A., Dwek R.A.;
RA "The glycosylation of the complement regulatory protein, human
RT erythrocyte CD59."
RT J. Biol. Chem. 272:7229-7244(1997).
[15] INHIBITION BY GLYCATION, AND MUTAGENESIS OF LYS-66 AND HTS-69.
RX MEDLINE=20266386; PubMed=10805801; DOI=10.1073/pnas.97.10.5450;
RX Acosta J., Hettling J., Flueckiger R., Krumrei N., Goldfine A.,
RA Angarita L., Halperin J.;
RA "Molecular basis for a link between complement and the vascular
RT complications of diabetes."
RT Proc. Natl. Acad. Sci. U.S.A. 97:5450-5455(2000).
[16] STRUCTURE BY NMR OF 26-95.
RX MEDLINE=94213818; PubMed=7512825;
RX Kieffer B., Driscoll P.C., Campbell I.D., Willis A.C.,
RA van der Merwe P.A., Davis S.J.;
RA "Three-dimensional solution structure of the extracellular region of
RT the complement regulatory protein CD59, a new cell-surface protein
RT domain related to snake venom neurotoxins."
RT Biochemistry 33:4471-4482(1994).
[17] STRUCTURE BY NMR OF 26-102.
RX TISSUE=urine;
RX MEDLINE=94348877; PubMed=7520819;
RA Fletcher C.W., Harrison R.A., Lachmann P.J., Neuhaus D.;
RA "Structure of a soluble, glycosylated form of the human complement
RT regulatory protein CD59."
RT Structure 2:185-199(1994).
CC -!- FUNCTION: Potent inhibitor of the complement membrane attack
CC complex (MAC) action. Acts by binding to the C8 and/or C9
CC complements of the assembling MAC, thereby preventing
CC incorporation of the multiple copies of C9 required for complete
CC formation of the osmolytic pore. This inhibitor appears to be
CC species-specific. Involved in signal transduction for T-cell
CC activation complexed to a protein tyrosine kinase. Interacts with
CC T-cell surface antigen CD2.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- PTM: N- and O-glycosylated. The N-glycosylation mainly consists of
CC a family of bi-antennary complex-type structures with and without
CC lactosamine extensions and outer arm fucose residues. The
CC predominant O-glycans are mono-sialylated forms of the
CC disaccharide, Gal-beta-1,3GalNAc, and their sites of attachment
CC are probably on Thr-76 and Thr-77.
CC -!- PTM: Glycated. Glycation is found in diabetic subjects, but only
CC at minimal levels in nondiabetic subjects. Glycated CD59 lacks
CC MAC-inhibitory function and confers to vascular complications of
CC diabetes.
CC -!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -!- DATABASE: NAME=PROW; NOTE=CD guide CD59 entry;
CC WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd59.htm".
CC
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CC or send an email to license@isb-sib.ch).
CC
CC EMBL; M27909; AAA60543.1; --

DR EMBL; M95708; AAA60957.1; --
DR EMBL; X16447; CAA34467.1; --
DR EMBL; X17198; CAA35059.1; --
DR EMBL; M34671; AAA51952.1; --
Query Match 19.3%; Score 108; DB 1; Length 128;
Best Local Similarity 29.6%; Pred. No. 0.0021;
Matches 29; Conservative 13; Mismatches 36; Indels 20; Gaps 4;
QY 9 LLLVAWSMCGEALCKYCKEPMTSASCTITRCKPEDTACMTTLVTVEAE---YPF-- 63
DB 12 LLLLVAVFCHSGHSLQCYNCPN- -TADCKTAVNCSDFDACLITRAGLQVYNCKWKEH 69
QY 64 -NOSPVTTRSCSSCVATDPDSIGAAHLIFCCFRDLN 100
DB 70 CNFNDVTTLRENELT-----YYCKCKDLN 95
RESULT 16
ID Q9CQ11 PRELIMINARY; PRT; 111 AA.
AC Q9CQ11;
DT 01-JUN-2001 (TEMBLrel. 17, Created)
DT 01-JUN-2001 (TEMBLrel. 17, Last sequence update)
DT 25-OCT-2004 (TEMBLrel. 28, Last annotation update)
DE Mus musculus adult male colon cDNA, RIKEN full-length enriched
DE library, clone:9030613J04 product:hypothetical CD59 antigen containing
DE protein, full insert sequence (Mus musculus adult male small intestine
DE cDNA, RIKEN full-length enriched library, clone:2010109103
DE product:hypothetical CD59 antigen containing protein, full insert
DE sequence).
GN Name=2010109103Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
[1]
RN SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
[2]
RN SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
[3]
RN SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RA The FANTOM Consortium,
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
[4]
RN SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
[5]
RN SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,

RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaki S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:1757-1771(2000).
[6]
RN SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Nunazaki R., Ohno M.,
RA Okazaki Y., Okido T., Owa C., Saio H., Saio R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK018552; BAB31271.1; --
DR EMBL; AK008365; BAB25630.1; --
DR HSSP; P81782; 1F94.
DR MGD; MGI:1914288; 2010109103Rik.
DR GO; GO:0005615; C:extracellular space; TAS.
DR InterPro; IPR001526; LV6 UPAR.
DR InterPro; IPR003571; Snake_toxin.
DR Pfam; PF00021; UPAR_LY6; 1.
DR ProDom; PD000206; Snake_toxin; 1.
DR SMART; SM00134; IU; 1.
DR Hypothetical protein.
KW SEQUENCE 111 AA; 12280 MW; DB0138AE7094D321 CRC64;
SQ
Query Match 19.1%; Score 107; DB 2; Length 111;
Best Local Similarity 28.9%; Pred. No. 0.0023;
Matches 28; Conservative 14; Mismatches 41; Indels 14; Gaps 4;
QY 5 WAVOLLVAWSMCGEALCKYCKEPMTSASCTITRCKPEDTACMTTLVTVEAEYPPN 64
DB 7 WLLPLILGSG---SAQALKKCHCS---GIEDCYKPKTSSQSLYCLTNWYT-----PPG 54
QY 65 QSPVTRSCSSCVATDPDSIGAAHLIFCCFRDLN 101
DB 55 QQTVTTKTCATC--PDINHVTANSKSCNTDLN 89
RESULT 17
LY6E_CHICK STANDARD; PRT; 126 AA.
ID LY6E_CHICK
AC Q90986;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Lymphocyte antigen Ly-6E precursor (stem cell antigen 2) (SCA-2).
GN Name=LY6E; Synonyms=SCA2;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
[1]
RN SEQUENCE FROM N.A.
RC TISSUE=Bone marrow;
RX MEDLINE=98007656; PubMed=9349500; DOI=10.1038/sj.onc.1201334;
RA Petrenko O., Ischenko I., Enrietto P.J.;
RT "Characterization of changes in gene expression associated with
RT malignant transformation by the NF-kappaB family member, v-Rel.";
RL Oncogene 15:1671-1680(1997).
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
CC similarity).

```
CC -!- TISSUE SPECIFICITY: Expressed by thymic blast cells.
CC -!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: L34554; AAA49063.1; --
CC InterPro: IPR003632; Ly-6 CD59.
CC InterPro: IPR001526; Ly6 UPAR.
CC Pfam: PF00021; UPAR_Ly6; 1.
CC SMART: SM00134; LU; 1.
CC PROSITE: PS00983; Ly6 UPAR; FALSE NEG.
CC Antigen; GPI-anchor; Lipoprotein; Membrane; Multigene family; Signal.
CC SIGNAL 1 20 Potential.
CC CHAIN 21 ?98 Lymphocyte antigen Ly-6F.
CC PROPEP ?99 126 Removed in mature form (By similarity).
CC DOMAIN 21 98 UPAR/Ly6.
CC DISULFID 23 48 By similarity.
CC DISULFID 26 35 By similarity.
CC DISULFID 41 69 By similarity.
CC DISULFID 73 89 By similarity.
CC DISULFID 90 95 By similarity.
CC CARBOHYD 96 96 N-linked (GlcNAc.. ) (Potential).
CC LIPID 98 98 GPI-anchor amidated serine (Potential).
CC SEQUENCE 126 AA; 13011 MW; EB5C89E6674C73B8 CRC64;

Query Match 18.8%; Score 105; DB 1; Length 126;
Best Local Similarity 27.5%; Pred. No. 0.0042;
Matches 25; Conservative 18; Mismatches 46; Indels 2; Gaps 1;

Qy 10 LLVAWSMGCGEALKCYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAYFPNQSPW 69
Db 8 VLAAVLVERAHTLICFSCDASSNWACLTVPKCAENEHCVTTVGVGIGKSGQS--I 65

Qy 70 TRSCSSCVATDPDSIGAAHLIFCCFRDLN 100
Db 66 SKGCSFVCSAGINLGLIAASVYCCDSFLCN 96

RESULT 18
Q68F57 PRELIMINARY; PRT; 261 AA.
ID Q68F57
AC Q68F57;
DT 25-OCT-2004 (TReMBLrel. 28, Created)
DT 25-OCT-2004 (TReMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TReMBLrel. 28, Last annotation update)
DE MGC81574 protein.
GN Name=MGC81574;
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Embryo;
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;
RA Klein S.L., Straube R.L., Wagner L., Pontius J., Clifton S.W.,
RA Richardson P.;
RA "Genetic and genomic tools for Xenopus research: The NIH Xenopus
RT initiative.";
RL Dev. Dyn. 225:384-391(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Embryo;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
```


shared Ag-1/stem cell Ag-2; a new member of the human Ly-6 family.";
J. Immunol. 157:969-973(1996).
[3]
SEQUENCE FROM N.A.
RP TISSUE=Monocytes;
RC MEDLINE=98211698; PubMed=9551972;
RA Shan X., Bourdeau A., Rhoton A., Wells D.E., Cohen E.H.,
RA Landgraf B.E., Palfree R.G.E.;
RT "Characterization and mapping to human chromosome 8q24.3 of Ly-6-
RT related gene 9804 encoding an apparent homologue of mouse TSA-1.";
RT J. Immunol. 160:197-208(1998).
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By
CC similarity).
CC -1- TISSUE SPECIFICITY: Widely expressed, predominantly in liver,
CC kidney, ovary, spleen and peripheral blood leukocytes.
CC -1- INDUCTION: By retinoic acid; in promyelocytic leukemia NB4 and in
CC myeloblast HL-60 cell lines. Activated by IFN-alpha in monocytic
CC cell line U-937 and in peripheral blood monocyte cells.
CC -1- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -----
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CC -----
DR EMBL; U42376; AAC50519.1; -;
DR EMBL; U56145; AAC50616.1; -;
DR EMBL; U66711; AAB07513.1; -;
DR EMBL; Z68179; CAA92321.1; -;
DR Genew; HGNC:6727; LY6E.
DR MIM; 601384; -;
DR GO; GO:0005887; C: integral to plasma membrane; TAS.
DR GO; GO:0007166; P: cell surface receptor linked signal transdu. .; TAS.
DR InterPro; IPR003632; Ly-6 CD59.
DR InterPro; IPR001526; Ly6 UPAR.
DR Pfam; PF00021; UPAR_Ly6; 1.
DR SMART; SM00134; LU; 1.
DR PROSITE; PS00983; LY6_UPAR; FALSE NEG.
KW Antigen; GPI-anchor; Lipoprotein; Membrane; Multigene family; Signal.
FT SIGNAL 1 20 Potential.
FT CHAIN 21 101 Lymphocyte antigen Ly-6E.
FT PROPEP 102 131 Removed in mature form (Potential).
FT DOMAIN 21 101 UPAR/Ly6.
FT DISULFID 23 48 By similarity.
FT DISULFID 26 35 By similarity.
FT DISULFID 41 71 By similarity.
FT DISULFID 75 92 By similarity.
FT DISULFID 93 98 By similarity.
FT CARBOHYD 99 99 N-linked (GlcNAc...) (Potential).
FT LIPID 101 101 GPI-anchor amidated serine (Potential).
SQ SEQUENCE 131 AA; 13507 MW; 0F6D1157741AFC98 CRC64;

Query Match 18.3%; Score 102.5; DB 1; Length 131;
Best Local Similarity 27.7%; Pred. No. 0.0079;
Matches 28; Conservative 18; Mismatches 38; Indels 17; Gaps 4;
QY 9 LLLVAWSMGCEALKCYCKEPTMTSASCRITTRCKPEDTACMT-----TLVTVEAE 60
Db 7 VLLAALLGVERASSLMCFSLNQKSNLYCLKPTICSDQDQNCYVTSASAGINLV----- 62
QY 61 YPFNQSPVTVTRSCSSCVATPDSIGAAHL-IFCCFRDLN 100
Db 63 --FGHS--LSKTCSPACPIPEGVNVGVASMGISCCQSPCLN 99
RESULT 20
Q91XG0
ID Q91XG0 PRELIMINARY; PRT; 131 AA.
AC Q91XG0;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)

DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DE 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Ly6c protein.
GN Names=Ly6c;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Kidney;
RC MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.2426038999;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Kidney;
RA Strausberg R.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC010764; AAH10764.1; -;
DR MGD; MGI:96882; Ly6c.
DR GO; GO:0009897; C: external side of plasma membrane; IDA.
DR GO; GO:0005615; C: extracellular space; TAS.
DR Pfam; PF00021; UPAR_Ly6; 1.
DR SMART; SM00134; LU; 1.
DR PROSITE; PS00983; LY6_UPAR; 1.
SQ SEQUENCE 131 AA; 14192 MW; 36DAB8CB8F137CB0 CRC64;

Query Match 18.2%; Score 102; DB 2; Length 131;
Best Local Similarity 30.3%; Pred. No. 0.0088;
Matches 30; Conservative 11; Mismatches 48; Indels 10; Gaps 4;
QY 7 VQLLVAAWSMGCEALKCYCKEPTMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNQS 66
Db 11 VLILVALLCAERAQGLQCYCYGVPIETSPAVT-CRASDGFCAQ--NIELDSQRR 67
QY 67 PVVTRSCSSCVA-----TDPDSIGAAHLIFCCFRDLNCS 101
Db 68 KLKTRQCLSFPCAGVPIRDPN---IRERTSCSSEDLNCA 103
RESULT 21
Q86SR0
ID Q86SR0 PRELIMINARY; PRT; 97 AA.
AC Q86SR0;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Secreted Ly6/upar related protein 2 (QLGT871).
GN Name=SLURP-2; Synonyms=SLURP2; ORFNames=UNQ871;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RX MEDLINE=22461583; PubMed=12573258; DOI=10.1016/S0888-7543(02)00025-3;
RA "Tsuji H., Okamoto K., Matsuzaka Y., Iizuka H., Tamiya G., Inoko H.;
RT "GLRP-2, a novel member of the human Ly-6 superfamily that is up-
RL regulated in psoriasis vulgaris.";
RN Genomics 81:26-33(2003).
[3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RC Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RD Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RE Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RF Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RG Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RH Vandelan R., Watanabe C., Wileand D., Woods K., Xie M.H., Yansura D.,
RI Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RJ Godowski P.;
RK "The secreted protein discovery initiative (SPDI), a large-scale
RL effort to identify novel human secreted and transmembrane proteins: a
RM bioinformatics assessment.";
RN Genome Res. 13:2265-2270(2003).
[3]
RP SEQUENCE FROM N.A.
RA Juan A., Sergei G.;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB081838; BAC56859.1; -
DR EMBL; AY358417; AAQ88783.1; -
DR EMBL; AY587277; AAT00512.1; -
DR InterPro; IPR001526; LY6 UPAR.
DR Pfam; PF00021; UPAR_LY6_1.
SQ SEQUENCE 97 AA; 10160 MW; 8179A103BC3001A CRC64;
Query Match 17.9%; Score 100.5; DB 2; Length 97;
Best Local Similarity 30.2%; Pred. NO. 0.0093;
Matches 29; Conservative 11; Mismatches 49; Indels 7; Gaps 3;
QY 9 LLLVAAMS--MCGEALKCYTCCKPEMTSASRTTTRCKPDPETACMTTLVTVEAEYFPNQ 66
DB 7 LLLAAVLSQLAAAEAIWCHQC---TGFGGCGSGSRCLRDSTHCVTATRVLSN--TEDL 61
QY 67 PVVTRSCSSCVATDPDPSIGAHLFFCCFRLCNSE 102
DB 62 PLVTQKHCHIGCPDIPSLGLGVPVSIACQTSLCNHD 97
RESULT 22
LY6D_MOUSE
ID LY6D_MOUSE STANDARD; PRT; 127 AA.
AC P35459;
DT 01-JUN-1994 (Rel. 29, Created)
DT 01-JUN-1994 (Rel. 29, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Lymphocyte antigen Ly-6D precursor (Thymocyte B cell antigen) (ThB).
GN Name=Ly6d; Synonyms=Ly6l, Thb;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Thymocytes;
RX MEDLINE=93017863; PubMed=1401899;
RA Gumley T.P., McKenzie I.F., Kozak C.A., Sandrin M.S.;
RT "Isolation and characterization of cDNA clones for the mouse thymocyte
RT B cell antigen (ThB).";
RL J. Immunol. 149:2615-2618(1992).
[2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c; TISSUE=Leukocyte;
RX MEDLINE=95369850; PubMed=7642235;
RA Gumley T.P., McKenzie I.F., Sandrin M.S.;

RT "sequence and structure of the mouse ThB gene.";
RL Immunogenetics 42:221-224(1995).
[3]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Salivary gland;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Scherer G.D.,
RC Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Bhat N.K.,
RD Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Hsieh F.,
RE Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,
RF Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RG Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RH Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RI Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RJ Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RK Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RL Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RM Fahy J., Heiton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RN Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RO Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RP Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RQ Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RS Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RL and mouse cDNA sequences.";
RM Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RC -I- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -I- TISSUE SPECIFICITY: Thymocytes and B cells.
CC -I- SIMILARITY: Contains 1 UPAR/Ly6 domain.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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DR EMBL; X63782; CAA45317.1; -
DR EMBL; L40419; AAA79249.1; ALT INIT.
DR EMBL; BC025135; AAH25135.1; -
DR PIR; A46528; A46528.
DR MGD; MGI:96881; Ly6d.
DR InterPro; IPR003632; LY-6_CD59.
DR InterPro; IPR001526; LY6 UPAR.
DR Pfam; PF00021; UPAR_LY6_1.
DR ProDom; PD003128; LY-6_CD59; 1.
DR SMART; SM00134; LU; 1_CD59; 1.
DR PROSITE; PS00983; LY6 UPAR; 1.
DR Antigen; GPI-anchor; Lipoprotein; Membrane; Multigene family; Signal.
KW SIGNAL 1 20 Potential.
FT CHAIN 21 98 Lymphocyte antigen Ly-6D.
FT PROPEP 99 127 Removed in mature form (Potential).
FT DOMAIN 21 108 UPAR/Ly6.
FT DISULFID 23 45 By similarity.
FT DISULFID 26 32 By similarity.
FT DISULFID 38 63 By similarity.
FT DISULFID 67 86 By similarity.
FT DISULFID 87 92 By similarity.
FT LIPID 98 GPI-anchor amidated serine (Potential).
SQ SEQUENCE 127 AA; 13395 MW; 0AF039877D105917 CRC64;
Query Match 17.9%; Score 100.5; DB 1; Length 127;
Best Local Similarity 31.4%; Pred. NO. 0.012;
Matches 32; Conservative 18; Mismatches 39; Indels 13; Gaps 6;
QY 6 AVQLLLVAAMSGCEALKCYTCCKPEMTSASRTTTRCKPDPETACMTTLVTVEAEYFPNQ 65
DB 4 ALLVLLVLAATSPAWALRCHVC---TNSANCKPQVC-PSNFYCKVTSVE---PLNG 56
QY 66 SPVWTRSCSSCVATDPDPSIG----AAHLFFCCFRLCNSEL 103
DB 57 N-LVRKCANSC-TSDYSOQGHVSGSEVTQCCQDLCNRL 96

CC CC -1- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: X82693; CAA58014.1; --
CC DR EMBL: Y12642; CAA73189.1; --
CC DR EMBL: BC022806; AAH22806.1; ALT_INIT.
CC DR EMBL: U66837; AAB07524.1; --
CC DR PIR: A57321; A57321.
CC DR Genew: HGNC:13348; LY6D.
CC DR H-InvDB: HIX0007832; --
CC DR MIM: 606204; -- C-membrane fraction; TAS.
CC DR GO: GO:0005624; C-membrane fraction; TAS.
CC DR GO: GO:0007155; P-cell adhesion; TAS.
CC DR InterPro: IPR003632; Ly-6 CD59.
CC DR InterPro: IPR001526; LY6 UPAR.
CC DR Pfam: PF00021; UPAR LY6; 1.
CC DR SMART: SM00134; LU; 1.
CC DR PROSITE: PS00983; LY6 UPAR; 1.
CC DR Antigen: Cell adhesion; Direct protein sequencing; GPI-anchor;
CC KW Lipoprotein; Membrane; Multigene family; Signal.
CC FT CHAIN 1 20 Lymphocyte antigen Ly-6D.
CC FT PROPEP 99 128 Removed in mature form (Potential).
CC FT DOMAIN 21 108 UPAR/Ly6.
CC FT DISULFID 23 45 By similarity.
CC FT DISULFID 26 32 By similarity.
CC FT DISULFID 38 63 By similarity.
CC FT DISULFID 67 86 By similarity.
CC FT DISULFID 87 92 By similarity.
CC FT LIPID 98 98 GPI-anchor amidated asparagine
CC FT (Potential).
CC FT CONFLICT 10 10 A -> T (in Ref. 2).
CC FT CONFLICT 60 60 K -> E (in Ref. 4).
CC FT CONFLICT 76 76 Q -> L (in Ref. 4).
CC SQ SEQUENCE 128 AA; 13286 MW; 39618DF6AB5B0EBD CRC64;
Query Match 17.9%; Score 100.5; DB 1; Length 128;
Best Local Similarity 31.1%; Pred. No. 0.012;
Matches 33; Conservative 16; Mismatches 33; Indels 25; Gaps 7;
QY 9 LLLVAASMGCEA--LKCYTCKEPMWSASCTTTRCKPEDTACHTTLVTVEAEYPPNQS 66
Db 5 LLLLAALAVATGPALTLRCHVC---TSSNCKHSHVCPASSRFRCKTT-NTVE---PL-RG 56
QY 67 PVWTRSCSSC-----VATPDPSIGAHLIFCCFRDLNSEL 103
Db 57 NLVKDCAESCTPSYTLQGVSSGTSSTQ-----CCQEDLCNEKL 96
RESULT 24
Q8N5J9
ID Q8N5J9 PRELIMINARY; PRT; 131 AA.
AC Q8N5J9
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Colon;
RX MEDLINE=22386257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Dege J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny K.C., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalius D.E.,
RA Schnerth A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[4]
RP SEQUENCE OF 18-96 FROM N.A.
RA Shan X., Bourdeau A., Rhoton A., Wells D.E., Cohen E.H.,
RA Landgraf B.E., Palfree R.G.E.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
[5]
RP SEQUENCE OF 21-35
RX PubMed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Hensel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
RT verified cleavage sites."
RL Protein Sci. 13:2819-2824(2004).
CC -1- FUNCTION: May be involved in cell-cell adhesion and signal
CC transduction.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -1- TISSUE SPECIFICITY: Expressed exclusively at the outer cell
CC surface of transitional epithelia and the keratinocyte of
CC stratified squamous epithelia.

RESULT 23
LY6D HUMAN
-ID LY6D_HUMAN STANDARD; PRT; 128 AA.
AC Q14210; Q8783; Q87BD4; Q92933;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 25-JAN-2005 (Rel. 46, Last annotation update)
DE Lymphocyte antigen Ly-6D precursor (E48 antigen).
GN Name=LY6D; Synonyms=E48;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 21-33.
RX MEDLINE=95310346; PubMed=7790363; DOI=10.1083/jcb.129.6.1677;
RA Brakenhoff R.H., van Dijk M., Rood-Knippels E.M.C., Snow G.B.;
RA van Essen H., Weghuis D.O., Sinke R.J., Snow G.B.,
RA van Dongen G.A.M.S.;
RT "The human E48 antigen, highly homologous to the murine Ly-6 antigen
RT ThB, is a GPI-anchored molecule apparently involved in keratinocyte
RT cell-cell adhesion."
RL J. Cell Biol. 129:1677-1689(1995).
[2]
RP SEQUENCE FROM N.A.
RX MEDLINE=98031741; PubMed=9366413;
RA Brakenhoff R.H., van Dijk M., Rood-Knippels E.M.C., Snow G.B.;
RT "A gain of novel tissue specificity in the human Ly-6 gene E48."
RL J. Immunol. 159:4879-4886(1997).
[3]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Dege J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny K.C., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalius D.E.,
RA Schnerth A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[4]
RP SEQUENCE OF 18-96 FROM N.A.
RA Shan X., Bourdeau A., Rhoton A., Wells D.E., Cohen E.H.,
RA Landgraf B.E., Palfree R.G.E.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
[5]
RP SEQUENCE OF 21-35
RX PubMed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Hensel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
RT verified cleavage sites."
RL Protein Sci. 13:2819-2824(2004).
CC -1- FUNCTION: May be involved in cell-cell adhesion and signal
CC transduction.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -1- TISSUE SPECIFICITY: Expressed exclusively at the outer cell
CC surface of transitional epithelia and the keratinocyte of
CC stratified squamous epithelia.

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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:48:58 ; Search time 164 Seconds
(without alignments)
242.904 Million cell updates/sec

Title: US-10-826-788-2

Perfect score: 560

Sequence: 1 MASRWAVQLLLVAWSMGCG.....SIGAAHLIFCCFRLCNSEL 103

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

A_Geneseq_16Dec04:.*
1: Geneseqp1980s:.*
2: Geneseqp1990s:.*
3: Geneseqp2000s:.*
4: Geneseqp2001s:.*
5: Geneseqp2002s:.*
6: Geneseqp2003as:.*
7: Geneseqp2003bs:.*
8: Geneseqp2004s:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	560	100.0	103	2	AAR70984 Component
2	560	100.0	103	3	AAB24039 Human PRO
3	560	100.0	103	8	ADN04680 Antipsori
4	560	100.0	103	8	ADQ18711 Human sof
5	518	92.5	95	8	ADG06822 Human SLU
6	444	79.3	81	2	AAW94613 Human LUS
7	212.5	37.9	125	4	AAE03301 Human gen
8	212.5	37.9	125	4	AAE03327 Human gen
9	212.5	37.9	125	5	ABG64428 Human alb
10	212.5	37.9	125	5	ABG64430 Human alb
11	212.5	37.9	125	8	ADL77695 Albumin f
12	212.5	37.9	125	8	ADL77697 Albumin f
13	208.5	37.2	125	3	AAH41756 Human PRO
14	208.5	37.2	125	3	AAH33439 Human PRO
15	208.5	37.2	125	3	AAH30300 Human PRO
16	208.5	37.2	125	3	AAH44312 Human PRO
17	208.5	37.2	125	3	AAH24415 Human PRO
18	208.5	37.2	125	5	AAH50915 Human PRO
19	208.5	37.2	125	5	AAH83661 Human PRO
20	208.5	37.2	125	5	ABH84871 Human PRO
21	208.5	37.2	125	5	ABH95477 Human ang
22	208.5	37.2	125	6	ABU80808 Human PRO
23	208.5	37.2	125	6	ABO25258 Novel hum
24	208.5	37.2	125	6	ABO33774 Novel hum
25	208.5	37.2	125	6	ABU72264 Novel hum

26	208.5	37.2	125	6	ABU84944	Human sec
27	208.5	37.2	125	6	ABU61142	Human PRO
28	208.5	37.2	125	6	ABU80411	Human sec
29	208.5	37.2	125	6	ABU82117	Novel hum
30	208.5	37.2	125	6	ABJ72297	Human PRO
31	208.5	37.2	125	6	ADA24993	Novel hum
32	208.5	37.2	125	6	ADA19713	Novel hum
33	208.5	37.2	125	6	ADA12654	Human sec
34	208.5	37.2	125	6	ABJ72425	Human PRO
35	208.5	37.2	125	6	ABO34320	Human sec
36	208.5	37.2	125	6	ABO19604	Novel hum
37	208.5	37.2	125	7	ABJ72127	Human mem
38	208.5	37.2	125	7	ABJ72127	Human mem
39	208.5	37.2	125	7	ABJ72127	Human mem
40	208.5	37.2	125	7	ABJ72127	Human mem
41	208.5	37.2	125	7	ABJ72127	Human mem
42	208.5	37.2	125	7	ABJ72127	Human mem
43	208.5	37.2	125	7	ABJ72127	Human mem
44	208.5	37.2	125	7	ABJ72127	Human mem
45	208.5	37.2	125	7	ABJ72127	Human mem
46	208.5	37.2	125	7	ABJ72127	Human mem
47	208.5	37.2	125	7	ABJ72127	Human mem
48	208.5	37.2	125	7	ABJ72127	Human mem
49	208.5	37.2	125	7	ABJ72127	Human mem
50	208.5	37.2	125	7	ABJ72127	Human mem
51	208.5	37.2	125	7	ABJ72127	Human mem
52	208.5	37.2	125	7	ABJ72127	Human mem
53	208.5	37.2	125	7	ABJ72127	Human mem
54	208.5	37.2	125	7	ABJ72127	Human mem
55	208.5	37.2	125	7	ABJ72127	Human mem
56	208.5	37.2	125	7	ABJ72127	Human mem
57	208.5	37.2	125	7	ABJ72127	Human mem
58	208.5	37.2	125	7	ABJ72127	Human mem
59	208.5	37.2	125	7	ABJ72127	Human mem
60	208.5	37.2	125	7	ABJ72127	Human mem
61	208.5	37.2	125	7	ABJ72127	Human mem
62	208.5	37.2	125	7	ABJ72127	Human mem
63	208.5	37.2	125	7	ABJ72127	Human mem
64	208.5	37.2	125	7	ABJ72127	Human mem
65	208.5	37.2	125	7	ABJ72127	Human mem
66	208.5	37.2	125	7	ABJ72127	Human mem
67	208.5	37.2	125	7	ABJ72127	Human mem
68	208.5	37.2	125	7	ABJ72127	Human mem
69	208.5	37.2	125	7	ABJ72127	Human mem
70	208.5	37.2	125	7	ABJ72127	Human mem
71	208.5	37.2	125	7	ABJ72127	Human mem
72	208.5	37.2	125	7	ABJ72127	Human mem
73	208.5	37.2	125	7	ABJ72127	Human mem
74	208.5	37.2	125	7	ABJ72127	Human mem
75	208.5	37.2	125	7	ABJ72127	Human mem
76	208.5	37.2	125	7	ABJ72127	Human mem
77	208.5	37.2	125	7	ABJ72127	Human mem
78	208.5	37.2	125	7	ABJ72127	Human mem
79	208.5	37.2	125	7	ABJ72127	Human mem
80	208.5	37.2	125	7	ABJ72127	Human mem
81	208.5	37.2	125	7	ABJ72127	Human mem
82	208.5	37.2	125	7	ABJ72127	Human mem
83	208.5	37.2	125	7	ABJ72127	Human mem
84	208.5	37.2	125	7	ABJ72127	Human mem
85	208.5	37.2	125	7	ABJ72127	Human mem
86	208.5	37.2	125	7	ABJ72127	Human mem
87	208.5	37.2	125	7	ABJ72127	Human mem
88	208.5	37.2	125	7	ABJ72127	Human mem
89	208.5	37.2	125	7	ABJ72127	Human mem
90	208.5	37.2	125	7	ABJ72127	Human mem
91	208.5	37.2	125	7	ABJ72127	Human mem
92	208.5	37.2	125	7	ABJ72127	Human mem
93	208.5	37.2	125	7	ABJ72127	Human mem
94	208.5	37.2	125	7	ABJ72127	Human mem
95	208.5	37.2	125	7	ABJ72127	Human mem
96	208.5	37.2	125	7	ABJ72127	Human mem
97	208.5	37.2	125	7	ABJ72127	Human mem
98	208.5	37.2	125	7	ABJ72127	Human mem

Abu84944	Human sec
Abu61142	Human PRO
Abu80411	Human sec
Abu82117	Novel hum
Abj72297	Human PRO
Ada24993	Novel hum
Ada19713	Novel hum
Ada12654	Human sec
Abj72425	Human PRO
AbO34320	Human sec
Abj19604	Novel hum
Abj72127	Human mem
AbB83630	Novel hum
AbB80736	Novel hum
AbB73277	Novel hum
AbB78359	Novel hum
AbB85007	Human PRO
AbB78113	Novel hum
AbB73960	Human PRO
AbB7179	Human PRO
AbB84761	Human PRO
AbB83876	Novel hum
AbB73031	Novel hum
AbB76676	Human PRO
AbC41102	Human sec
AbC61862	Human sec
AbC63826	Human sec
AbC66926	Human sec
AbC69050	Human sec
AbC63110	Human sec
AbC68175	Human sec
AbC41495	Human sec
AbC67550	Human sec
AbC62486	Human sec
AbC36869	Human PRO
AbC42119	Human PRO
AbC21859	Human PRO
AbC49890	Novel hum
AbC49089	Novel hum
AbC49606	Novel hum
AbC47467	Novel hum
AbC47212	Novel hum
AbC78087	Novel hum
AbC6322	Novel hum
AbD10399	Human sec
AbD77841	Human sec
AbD11359	Human sec
AbD50804	Novel hum
AbD51050	Novel hum
AbD37152	Human sec
AbD50531	Human PRO
AbD50285	Human PRO
AbD51296	Novel hum
AbD49488	Human sec
AbD16656	Human sec
AbD73271	Human sec
AbD72629	Human sec
AbD17280	Human sec
AbD47294	Human sec
AbD53051	Human sec
AbD60371	Human sec
AbD161131	Human sec
AbD48843	Novel hum
AbD21014	Novel hum
AbD05858	Human PRO
AbD75087	Human PRO
AbD75833	Novel hum
AbD85065	Novel hum
AbD8891	Novel hum
AbD20768	Novel hum
AbD39065	Novel hum
AbD05612	Human PRO

QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 3

ADN04680
ID ADN04680 standard; protein; 103 AA.
AC ADN04680;
XX
DT 01-JUL-2004 (first entry)
DE Antipsoriatic protein sequence #524.
KW antipsoriatic; gene therapy; psoriasis; diagnosis.
XX Homo sapiens.
XX WO2004028479-A2.
XX
PD 08-APR-2004.
XX
PF 25-SEP-2003; 2003WO-US030907.
XX
PR 25-SEP-2002; 2002US-0414006P.
XX
PA (GETH) GENENTECH INC.
XX
PI Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
PI Wu TD;
XX
DR WPI; 2004-305105/28.
DR N-PSDB; ADN04679.
XX
PT New PRO nucleic acid or polypeptide, useful for preparing a
PT pharmaceutical composition for diagnosing or treating psoriasis in a
PT mammal.
XX
PS Claim 9; SEQ ID NO 1074; 3069pp; English.
XX

CC The invention relates to novel polynucleotide and polypeptides for
CC treating psoriasis or a sequence having at least 80% identity to the
CC above sequences. The nucleic acid is useful for preparing a composition
CC for diagnosing or treating psoriasis in a mammal. This sequence
CC corresponds to one of the polypeptides of the invention.
XX
SQ Sequence 103 AA;
Query Match 100.0%; Score 560; DB 8; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.4e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASRWAVQLLLVAWSMCGEALCKYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60
DB 1 MASRWAVQLLLVAWSMCGEALCKYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60
QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 4

ADQ18711
ID ADQ18711 standard; protein; 103 AA.
XX
AC ADQ18711;
XX
DT 26-AUG-2004 (first entry)
DE Human soft tissue sarcoma-upregulated protein - SEQ ID 1530.
XX
KW soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human.

XX
OS

Homo sapiens.

XX WO2004048938-A2.

XX 10-JUN-2004.

XX PD

XX 26-NOV-2003; 2003WO-US038193.

XX 26-NOV-2002; 2002US-0429739P.

XX (PROT-) PROTEIN DESIGN LABS INC.

XX PI Aziz N, Ginsburg WM, Zlotnik A;

XX DR WPI; 2004-441208/41.

XX Early detection of soft tissue sarcoma comprises determining expression
PT of a gene in a first soft tissue sample and a normal soft tissue sample
PT and comparing the gene expression, also useful in treating soft tissue
PT sarcoma.

XX Example 2; SEQ ID NO 1530; 210pp; English.

XX The invention relates to a novel method for detecting soft tissue sarcoma
CC which comprises obtaining a first soft tissue sample from an individual
CC and a normal soft tissue sample from the same or different individual,
CC determining the expression of a gene in both samples and comparing the
CC expression of the gene in both soft tissue samples, where a higher level
CC of protein expression in the first soft tissue sample indicates the
CC presence of soft tissue sarcoma. The method of the invention has
CC cytostatic applications and may be useful for detecting soft tissue
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
CC acid sequences may be useful in diagnostic and screening applications.
CC The current sequence is that of a human soft tissue sarcoma-upregulated
CC protein of the invention. The current sequence is not shown within the
CC specification per se but was submitted in CD format by the inventor.

XX SQ Sequence 103 AA;

Query Match 100.0%; Score 560; DB 8; Length 103;

Best Local Similarity 100.0%; Pred. No. 3.4e-49;

Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASRWAVQLLLVAWSMCGEALCKYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60

DB 1 MASRWAVQLLLVAWSMCGEALCKYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60

QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 5

ADG06822
ID ADG06822 standard; protein; 95 AA.

XX AC ADG06822;

XX DT 26-FEB-2004 (first entry)

XX DE Human SLURP-1, SEQ ID 14.

XX Antinflammatory; antipsoriatic; human; SLURP-2;

XX secretory Ly-6/uPAR-related protein-2; inflammatory disease; psoriasis;
XX SLURP-1.

XX OS Homo sapiens.

XX WO2003102182-A1.

XX PD 11-DEC-2003.

XX

PA (HUMA-) HUMAN GENOME SCI INC.
XX Ruben SM, Komatsoulis GA, Ebner R, Fiscella M, Wei P;
PI WPI; 2001-329085/34.
XX N-PSDB; AAD07714.
DR New nucleic acid molecules encoding human secreted proteins, used in
PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
PT Parkinson's diseases and cancers.
XX
XX Claim 11; Page 464; 530pp; English.
PS
XX AAD07705-AAD07759 represent cDNAs corresponding to 19 human secreted
CC protein genes, and AAE03292-AAE03346 represent the proteins they encode.
CC AAE03347-AAE03375 represent human secreted protein fragments or variants.
CC The genes and their secreted proteins are useful for preventing, treating
CC or ameliorating medical conditions, e.g., by protein or gene therapy.
CC Pathological conditions can be diagnosed by determining the amount of the
CC new protein in a sample or by determining the presence of mutations in
CC the new genes. Specific uses are described for each of the 19 genes,
CC based on the tissues in which they are most highly expressed, and include
CC developing products for the diagnosis or treatment of proliferative
CC disorders, cancer, tumours, foetal and developmental abnormalities,
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, and
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC pregnancy-related disorders, endocrine disorders, and infections. The
CC proteins can also be used to aid wound healing and epithelial cell
CC proliferation, to prevent skin aging due to sunburn, to maintain organs
CC before transplantation, for supporting cell culture of primary tissues,
CC to regenerate tissues, to identify their cognate ligands or binding
CC partners, and in chemotaxis, and can be used as a food additive or
CC preservative to modify storage properties. Antibodies specific for a
CC protein of the invention can be used in alleviating symptoms associated
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The
CC present sequence represents a human secreted protein of the invention
XX
SQ Sequence 125 AA;
Query Match 37.9%; Score 212.5; DB 4; Length 125;
Best Local Similarity 43.8%; Pred. No. 9.8e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;
QY 8 QLLVLAWSMGCGE---ALKYCTCKEPTMSASCTITRCKPDTACMTTLVTVEAEYFPN 64
DB 5 QLVLALVLAACGELAPALRCYVCPEPTGVSQCVTIATCTTNETMCKTTLYSREIVYFPQ 64
QY 65 QSPVTRSCSSCVATDPSIGAHLIFCCFRDLN 100
DB 65 GDSVTVKSCASKCPESVDGIGQTLFVSCNTELCN 100
RESULT 8
ID AAE03327
XX ID AAE03327 standard; protein; 125 AA.
AC AAE03327;
XX
DT 10-AUG-2001 (first entry)
XX
DE Human gene 10 encoded secreted protein HFBP27, SEQ ID NO:101.
XX
KW Human; secreted protein; proliferative disorder; cancer; tumour;
KW foetal abnormality; developmental abnormality; haematopoietic disorder;
KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW inflammation; allergy; neurological disorder; Alzheimer's disease;
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;

KW cardiovascular disorder; angiogenic disorder; kidney disorder;
KW gastrointestinal disorder; pregnancy-related disorder;
KW endocrine disorder; infection; wound healing; vulnery; cell culture;
KW chemotaxis; food additive; gene therapy; binding partner identification.
OS Homo sapiens.
XX
XX Key Location/Qualifiers
PH Peptide 1..22
FT /label= signal_peptide
FT Protein 23..125
FT /note= "Mature secreted protein"
XX
XX WO200134800-A1.
XX
XX 17-MAY-2001.
XX
XX 08-NOV-2000; 2000WO-US030674.
XX
XX 12-NOV-1999; 99US-0164750P.
XX 30-JUN-2000; 2000US-0215128P.
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ruben SM, Komatsoulis GA, Ebner R, Fiscella M, Wei P;
PI WPI; 2001-329085/34.
XX N-PSDB; AAD07740.
XX
XX New nucleic acid molecules encoding human secreted proteins, used in
PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
PT Parkinson's diseases and cancers.
XX
XX Claim 11; Page 485-486; 530pp; English.
XX
XX AAD07705-AAD07759 represent cDNAs corresponding to 19 human secreted
CC protein genes, and AAE03292-AAE03346 represent the proteins they encode.
CC AAE03347-AAE03375 represent human secreted protein fragments or variants.
CC The genes and their secreted proteins are useful for preventing, treating
CC or ameliorating medical conditions, e.g., by protein or gene therapy.
CC Pathological conditions can be diagnosed by determining the amount of the
CC new protein in a sample or by determining the presence of mutations in
CC the new genes. Specific uses are described for each of the 19 genes,
CC based on the tissues in which they are most highly expressed, and include
CC developing products for the diagnosis or treatment of proliferative
CC disorders, cancer, tumours, foetal and developmental abnormalities,
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, and
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC pregnancy-related disorders, endocrine disorders, and infections. The
CC proteins can also be used to aid wound healing and epithelial cell
CC proliferation, to prevent skin aging due to sunburn, to maintain organs
CC before transplantation, for supporting cell culture of primary tissues,
CC to regenerate tissues, to identify their cognate ligands or binding
CC partners, and in chemotaxis, and can be used as a food additive or
CC preservative to modify storage properties. Antibodies specific for a
CC protein of the invention can be used in alleviating symptoms associated
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The
CC present sequence represents a human secreted protein of the invention
XX
SQ Sequence 125 AA;
Query Match 37.9%; Score 212.5; DB 4; Length 125;
Best Local Similarity 43.8%; Pred. No. 9.8e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;
QY 8 QLLVLAWSMGCGE---ALKYCTCKEPTMSASCTITRCKPDTACMTTLVTVEAEYFPN 64
DB 5 QLVLALVLAACGELAPALRCYVCPEPTGVSQCVTIATCTTNETMCKTTLYSREIVYFPQ 64

Db	65	GDSTVTKSCASKSPDVGIGQTLPVSCCNTEL	100
RESULT 11			
ID	ADL77695		
XX	ADL77695 standard; protein; 125 AA.		
XX	ADL77695;		
XX	20-MAY-2004 (first entry)		
XX	Albumin fusion protein related therapeutic protein X, SEQ ID NO 1177.		
XX	albumin fusion protein; cytostatic; antianemic; antiarthritic;		
XX	antiasthmatic; anti-HIV; immunosuppressive; antiinflammatory;		
XX	antipsoriatic; antibacterial; osteopathic; dermatological; antiout;		
XX	immunomodulator; antiarrhythmic; cardiant; nootropic; antilipemic;		
XX	nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;		
XX	antidiabetic; anabolic; hypertensive; vulnerary; gene therapy; cancer;		
XX	reproductive system disorder; therapeutic protein.		
OS	Unidentified.		
XX	US2004010134-A1.		
XX	15-JAN-2004.		
XX	12-APR-2001; 2001US-00833245.		
XX	12-APR-2000; 2000US-0229358P.		
XX	25-APR-2000; 2000US-0199384P.		
XX	21-DEC-2000; 2000US-0256931P.		
XX	(ROSE/) ROSEN C A.		
XX	(HASE/) HASELTINE W A.		
XX	Rosen CA, Haseeltine WA;		
XX	WPI; 2004-090519/09.		
XX	New albumin fusion proteins, useful for diagnosing, treating, preventing		
XX	or ameliorating diseases or disorders e.g. cancer, anemia, arthritis,		
XX	asthma, inflammatory bowel disease or Alzheimer's disease.		
XX	Disclosure; SEQ ID NO 1177; 279pp; English.		
XX	The invention relates to a novel albumin fusion protein. The invention		
XX	further relates to: a composition comprising the albumin fusion protein		
XX	and a pharmaceutical carrier; a kit comprising the composition of the		
XX	albumin fusion protein formula; a method of treating a disease or		
XX	disorder in a patient comprising the step of administering the albumin		
XX	fusion protein; a method of treating a patient with a disease or disorder		
XX	that is modulated by therapeutic protein: X, or its fragment or variant;		
XX	a method of extending the shelf life of therapeutic protein: X, or its		
XX	fragment or variant; a nucleic acid molecule comprising a polynucleotide		
XX	sequence encoding the albumin fusion protein; a vector comprising the		
XX	nucleic acid molecule of the albumin fusion protein; and a host cell		
XX	comprising the nucleic acid molecule of the albumin fusion protein. The		
XX	albumin fusion protein and its compositions have the following		
XX	activities: cytostatic, antianemic, antiarthritic, antiasthmatic, anti-		
XX	HIV, immunosuppressive, antiinflammatory, antipsoriatic, antibacterial,		
XX	osteopathic, dermatological, antiout, immunomodulator, antiarrhythmic,		
XX	cardiant, nootropic, antilipemic, nephrotropic, uropathic,		
XX	neuroprotective, antiparkinsonian, tranquilizer, antidiabetic, anabolic,		
XX	hypertensive, and vulnerary. The albumin fusion protein nucleic acid may		
XX	be used in gene therapy to treat disorders. The albumin fusion protein is		
XX	useful for diagnosing, treating, preventing or ameliorating diseases or		
XX	disorders comprising indication: Y. The diseases or disorders include:		
XX	cancer (e.g. leukaemia, colon, bone, breast, liver or lung cancer),		
XX	immune or haematopoietic diseases (e.g. anaemia, Hodgkin's disease, acute		
XX	lymphocytic anaemia, multiple myeloma, arthritis, asthma, AIDS,		
XX	autoimmune disease, inflammatory bowel disease, psoriasis or Lyme		

[illegible]

[illegible]

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Db      |||          |||:||||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:~
60 VYFQGSSTVTKSCASKCKPSVDVGIGQTLPVSCCNTELCN 100

RESULT 16
AAB44312
ID AAB44312 standard; protein; 125 AA.
XX
AC AAB44312;
XX
DT 08-FEB-2001 (first entry)
XX
DE Human PRO788 (UNQ430) protein sequence SEQ ID NO:454.
XX
KW Human; secreted protein; transmembrane protein; PRO; EST; cytosstatic;
KW expressed sequence tag; detection; cancer.
XX
OS Homo sapiens.
XX
PN WO2000053756-A2.
XX
PD 14-SEP-2000.
XX
PF 18-FEB-2000; 2000WO-US004341.
XX
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 29-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 23-JUN-1999; 99US-0141037P.
PR 26-JUL-1999; 99US-0145698P.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
XX
XX (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX
WFI; 2000-611443/58.
DR N-PSDB; AAC78570.
XX
XX Novel PRO polypeptides and polynucleotides used in detection methods, to
XX target bioactive molecules to specific cells, and to modulate cellular
XX activities.
XX
XX Claim 12; Fig 185; 636pp; English.
XX
XX AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
CC tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC The PRO polynucleotides and polypeptides have cytostatic activity. The
CC polynucleotides and polypeptides can be used for detecting the presence
CC of PRO polypeptides in samples, for linking bioactive molecules to cells
CC and for modulating biological activities of cells, using the polypeptides
CC for specific targeting. The polypeptide targeting can be used to kill the
CC target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC provide specific targeting of bioactive molecules to cells. AAC78600 to
CC AAC78987 represent PCR primers and probes used in the isolation of the
CC PRO polynucleotide sequences
XX

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CC useful for preventing, diagnosing and treating disorders in mammals by
CC cardiovascular, endothelial or angiogenic disorder in mammals by
CC modulating cell proliferation, angiogenesis and cardiovascularisation,
CC and for identifying agonists and antagonists of these processes. The
CC nucleic acids and the proteins they encode may be used in the prevention,
CC treatment and diagnosis of diseases associated with inappropriate PRO
CC expression such as cardiovascular, endothelial or angiogenic disorders in
CC mammals (e.g. atherosclerosis, cancers and cardiac hypertrophy). For
CC example, the nucleic acids (NCs) and vectors containing them and the PRO
CC polypeptide may be used to treat disorders associated with decreased PRO
CC expression. AAA77510 to AAA77721 and AAB24388 to AAB24435 represent
CC nucleotide and protein sequences used in the exemplification of the
CC present invention
XX
XX Sequence 125 AA;
SQ

Query Match 37.2%; Score 208.5; DB 3; Length 125;
Best Local Similarity 42.6%; Pred. No. 2.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVQLLLVAWSMGCGE---ALKCYCKEPMFTSASCRITTRCKPEDTACTMTLTVTEA 59
Db 4 TRLALLALVLA---CGELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTLYSREI 59

Qy 60 EYPFNQSPVTVTRSCSSCVATDPDSIGAHLIFCCFRLCN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTEL 100

RESULT 18
AAB50915
ID AAB50915 standard; protein; 125 AA.
XX
AC AAB50915;
XX
DT 21-MAR-2001 (first entry)
XX
DE Human PRO788 protein.
XX
KW Human; PRO; antiinflammatory; dermatological; antiarthritic;
KW antirheumatic; cardiant; antianaemic; immunosuppressive; antithyroid;
KW antidiabetic; nontropic; neuroprotective; hepatotropic; virucide;
KW antiallergic; antiasthmatic; immune related disorder;
KW hepatobiliary disease; autoimmune disease; allergy.
XX
OS Homo sapiens.
XX
PN WO200073452-A2.
XX
PD 07-DEC-2000.
XX
PF 02-JUN-2000; 2000WO-US015264.
XX
PR 02-JUN-1999; 99WO-US012252.
PR 20-JUL-1999; 99US-0144732P.
PR 20-JUL-1999; 99US-0144758P.
PR 28-JUL-1999; 99US-0146222P.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
XX
XX (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Chan B, Goddard A, Godowski PJ;
PI Gurney AL, Hebert C, Henzel W, Kabakoff RC, Shelton DL, Tumas D;
PI Watanabe CK, Wood WI;
XX
XX WPI; 2001-025253/03.
DR N-PSDB; AAC91474.
XX
XX Thirty three nucleic acids encoding PRO polypeptides which are useful in
PT the diagnosis and treatment of immune related disorders, e.g. systemic
PT lupus erythematosus, rheumatoid arthritis, osteoarthritis, thyroiditis
PT and diabetes mellitus.
XX
XX Claim 58; Fig 28; 218pp; English.
XX
CC The present sequence is one of thirty three novel PRO polypeptides. The
CC PRO polypeptides, anti-PRO antibodies, agonists and antagonists are
CC useful for treating and diagnosing immune related disorders such as
CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
CC juvenile chronic arthritis, spondyloarthropathies, systemic sclerosis,
CC idiopathic inflammatory myopathies, Sjogren's syndrome, autoimmune
CC vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
CC thrombocytopaenia, thyroiditis, diabetes mellitus, immune-mediated renal
CC disease, demyelinating diseases of the central and peripheral nervous
CC systems (such as multiple sclerosis, idiopathic demyelinating
CC demyelinating polyneuropathy), hepatobiliary diseases (such as
CC cirrhosis, autoimmune chronic active hepatitis, primary biliary
CC infectious, granulomatous hepatitis and sclerosing cholangitis),
CC inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's
CC disease, autoimmune or immune-mediated skin diseases (such as bullous
CC skin diseases, erythema multiforme, contact dermatitis, psoriasis),
CC allergic diseases such as asthma, allergic rhinitis, atopic dermatitis,
CC food hypersensitivity and urticaria), immunological diseases of the lung
CC (such as eosinophilic pneumonias, idiopathic pulmonary fibrosis and
CC hypersensitivity pneumonitis), transplant-associated diseases
CC including graft rejection and graft-versus-host diseases
XX
SQ Sequence 125 AA;

Query Match 37.2%; Score 208.5; DB 4; Length 125;
Best Local Similarity 42.6%; Pred. No. 2.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVQLLLVAWSMGCGE---ALKCYCKEPMFTSASCRITTRCKPEDTACTMTLTVTEA 59
Db 4 TRLALLALVLA---CGELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTLYSREI 59

Qy 60 EYPFNQSPVTVTRSCSSCVATDPDSIGAHLIFCCFRLCN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTEL 100

RESULT 19
AAB53661
ID AAB53661 standard; protein; 125 AA.
XX
AC AAB53661;
XX
DT 08-MAY-2002 (first entry)

XX	Human PRO protein, Seq ID No 140.
DE	
XX	
KW	Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
KW	breast cancer; prostate tumour; rectal tumour; liver tumour;
KW	pericyte cell proliferation; chondrocyte cell proliferation;
KW	tumour necrosis factor-alpha.
XX	
OS	Homo sapiens.
XX	
XX	WO200208288-A2.
PN	
XX	
PD	31-JAN-2002.
XX	
PF	29-JUN-2001; 2001WO-US021066.
XX	
PR	20-JUL-2000; 2000US-0219556P.
PR	25-JUL-2000; 2000US-0220585P.
PR	25-JUL-2000; 2000US-0220605P.
PR	25-JUL-2000; 2000US-0220607P.
PR	25-JUL-2000; 2000US-0220624P.
PR	25-JUL-2000; 2000US-0220638P.
PR	25-JUL-2000; 2000US-0220664P.
PR	25-JUL-2000; 2000US-0220666P.
PR	26-JUL-2000; 2000US-0220893P.
PR	28-JUL-2000; 2000WO-US020710.
PR	01-AUG-2000; 2000US-0222425P.
PR	22-AUG-2000; 2000US-0227133P.
PR	23-AUG-2000; 2000WO-US023522.
PR	24-AUG-2000; 2000WO-US023328.
PR	10-NOV-2000; 2000WO-US030873.
PR	28-NOV-2000; 2000US-0253646P.
PR	01-DEC-2000; 2000WO-US032678.
PR	20-DEC-2000; 2000US-00747259.
PR	20-DEC-2000; 2000WO-US034956.
PR	28-FEB-2001; 2001WO-US006520.
PR	01-MAR-2001; 2001WO-US006520.
PR	22-MAR-2001; 2001US-00816744.
PR	10-MAY-2001; 2001US-00854208.
PR	10-MAY-2001; 2001US-00854280.
PR	25-MAY-2001; 2001WO-US017092.
XX	
PA	(GETH) GENENTECH INC.
XX	
PI	Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX	
DR	WPI; 2002-172001/22.
DR	N-PSDB; ABK33605.
XX	
XX	One hundred and twenty two nucleic acids encoding PRO polypeptides,
PT	useful for treating a PRO related disorder and for diagnosing tumors such
PT	as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
PT	or liver tumor.
XX	
XX	Claim 11; Fig 140; 359pp; English.
XX	
CC	The invention relates to one hundred and twenty two nucleic acids
CC	encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
CC	encode human secreted proteins. The PRO nucleic acids, polypeptides,
CC	agonists and antagonists are useful for treating a PRO related disorder.
CC	The PRO polypeptides are useful for diagnosing tumours, especially lung
CC	cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
CC	liver tumour. The PRO polypeptides are useful for stimulating the
CC	proliferation of, or gene expression, in pericyte cells, for stimulating
CC	the proliferation or differentiation of chondrocyte cells, for
CC	stimulating the release of tumour necrosis factor-alpha from human blood,
CC	for stimulating or inhibiting the proliferation of normal human dermal
CC	fibroblast cells. The PRO polypeptide may also be used as molecular
CC	weight markers and for tissue typing. The PRO nucleic acids have
CC	applications in molecular biology, including use as hybridisation probes,
CC	and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
CC	protein sequences of the invention

XX	Seq	Sequence 125 AA;
	Query Match	37.2%; Score 208.5; DB 5; Length 125;
	Best Local Similarity	42.6%; Pred.No. 2.5e-13;
	Matches 43; Conservative	13; Mismatches 38; Indels 7; Gaps 2;
QY	3	SRNAVQLLVAAWSMGGE---ALKVCYTCKEPMTSASCRITTRCKPEDTACMTTLTVTVEA 59
Db	4	TRLALLALVLA---CGELAPALRCVCPEPTGVSDCVTIATCTTNETMCKTLLYSREI 59
QY	60	EYPNQSPVTVTRSCSSCVATDPSDSTGAHLIFCCFRDLGN 100
Db	60	VYFQGDSTVTKSCASKCKPSDVGIGQTLPVSCCNTELCN 100
RESULT 20		
ABB84871		
ID	ABB84871	standard; protein; 125 AA.
XX	AC	ABB84871;
XX	DT	16-MAY-2002 (first entry)
XX	DE	Human PRO788 protein sequence SEQ ID NO:110.
KW		Human; angiogenesis; cardiact; cytostatic; antiangiogenic; hypotensive;
KW		vulnerable; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
KW		gene therapy; cardiovascular disorder; endothelial disorder; cancer;
KW		angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
KW		age-related macular degeneration; arterial restenosis; angina;
KW		rheumatoid arthritis; myocardial infarction; thrombopnebitis;
KW		lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
XX		wound healing; chromosome mapping; gene mapping.
OS		Homo sapiens.
XX		
PN		WO200200690-A2.
XX		
PD		03-JAN-2002.
XX		
PF		20-JUN-2001; 2001WO-US019692.
XX		
PR	23-JUN-2000;	2000US-0213637P.
PR	20-JUL-2000;	2000US-0219556P.
PR	25-JUL-2000;	2000US-0220624P.
PR	25-JUL-2000;	2000US-0220664P.
PR	28-JUL-2000;	2000WO-US020710.
PR	02-AUG-2000;	2000US-0222695P.
PR	17-AUG-2000;	2000US-00643657.
PR	23-AUG-2000;	2000WO-US023522.
PR	24-AUG-2000;	2000WO-US023328.
PR	07-SEP-2000;	2000US-0230978P.
PR	18-SEP-2000;	2000US-00664610.
PR	18-SEP-2000;	2000US-00665350.
PR	24-OCT-2000;	2000US-0242922P.
PR	08-NOV-2000;	2000US-00709238.
PR	08-NOV-2000;	2000WO-US030952.
PR	10-NOV-2000;	2000WO-US030873.
PR	01-DEC-2000;	2000WO-US032678.
PR	20-DEC-2000;	2000US-00747259.
PR	20-DEC-2000;	2000WO-US034956.
PR	22-JAN-2001;	2001US-00767609.
PR	28-FEB-2001;	2001US-00796498.
PR	28-FEB-2001;	2001WO-US006520.
PR	01-MAR-2001;	2001WO-US006666.
PR	09-MAR-2001;	2001US-00802706.
PR	14-MAR-2001;	2001US-00808689.
PR	22-MAR-2001;	2001US-00816744.
PR	05-APR-2001;	2001US-00828366.
PR	10-MAY-2001;	2001US-00854208.
PR	10-MAY-2001;	2001US-00854280.
PR	25-MAY-2001;	2001US-00866028.

[illegible]

PR	15-APR-1998;	98US-0081819P.	PR	12-MAR-1999;	99US-00267213.
PR	15-APR-1998;	98US-0081838P.	PR	12-MAR-1999;	99US-0123957P.
PR	15-APR-1998;	98US-0081952P.	PR	29-MAR-1999;	99US-0126773P.
PR	15-APR-1998;	98US-0081955P.	PR	12-APR-1999;	99US-00284291.
PR	21-APR-1998;	98US-0082558P.	PR	21-APR-1999;	99US-0130232P.
PR	21-APR-1998;	98US-0082559P.	PR	26-APR-1999;	99US-0131022P.
PR	22-APR-1998;	98US-0082700P.	PR	28-APR-1999;	99US-0131445P.
PR	22-APR-1998;	98US-0082704P.	PR	14-MAY-1999;	99US-00311832.
PR	22-APR-1998;	98US-0082797P.	PR	14-MAY-1999;	99US-0134287P.
PR	22-APR-1998;	98US-0082804P.	PR	02-JUN-1999;	99WO-US010733.
PR	22-APR-1998;	98US-0082796P.	PR	16-JUN-1999;	99US-0139557P.
PR	27-APR-1998;	98US-0083336P.	PR	23-JUN-1999;	99US-0141037P.
PR	28-APR-1998;	98US-0083322P.	PR	07-JUL-1999;	99US-0142880P.
PR	29-APR-1998;	98US-0083392P.	PR	26-JUL-1999;	99US-0145698P.
PR	29-APR-1998;	98US-0083495P.	PR	28-JUL-1999;	99US-0146222P.
PR	29-APR-1998;	98US-0083496P.	PR	25-AUG-1999;	99US-00380137.
PR	29-APR-1998;	98US-0083499P.	PR	25-AUG-1999;	99US-00380138.
PR	29-APR-1998;	98US-0083500P.	PR	25-AUG-1999;	99US-00380142.
PR	29-APR-1998;	98US-0083504P.	PR	29-OCT-1999;	99US-0162506P.
PR	29-APR-1998;	98US-0083554P.	PR	30-NOV-1999;	99WO-US028313.
PR	29-APR-1998;	98US-0083558P.	PR	02-DEC-1999;	99WO-US028551.
PR	29-APR-1998;	98US-0083559P.	PR	16-DEC-1999;	99WO-US030095.
PR	30-APR-1998;	98US-0083742P.	PR	30-DEC-1999;	99WO-US031243.
PR	05-MAY-1998;	98US-0084366P.	PR	30-DEC-1999;	99WO-US031274.
PR	06-MAY-1998;	98US-0084414P.	PR	05-JAN-2000;	2000WO-US000219.
PR	07-MAY-1998;	98US-008441P.	PR	06-JAN-2000;	2000WO-US000277.
PR	07-MAY-1998;	98US-0084600P.	PR	11-FEB-2000;	2000WO-US000376.
PR	07-MAY-1998;	98US-0084627P.	PR	18-FEB-2000;	2000WO-US003565.
PR	07-MAY-1998;	98US-0084637P.	PR	24-FEB-2000;	2000WO-US005004.
PR	07-MAY-1998;	98US-0084639P.	PR	02-MAR-2000;	2000WO-US005841.
PR	07-MAY-1998;	98US-0084640P.	PR	10-MAR-2000;	2000WO-US006319.
PR	07-MAY-1998;	98US-0084643P.	PR	21-MAR-2000;	2000WO-US007532.
PR	13-MAY-1998;	98US-0085323P.	PR	30-MAR-2000;	2000WO-US008439.
PR	13-MAY-1998;	98US-0085338P.	PR	17-MAY-2000;	2000WO-US013705.
PR	13-MAY-1998;	98US-0085339P.	PR	22-MAY-2000;	2000WO-US014042.
PR	15-MAY-1998;	98US-0085573P.	PR	30-MAY-2000;	2000WO-US014941.
PR	15-MAY-1998;	98US-0085579P.	PR	02-JUN-2000;	2000WO-US015264.
PR	15-MAY-1998;	98US-0085580P.	PR	28-JUL-2000;	2000WO-US020710.
PR	15-MAY-1998;	98US-0085582P.	PR	24-AUG-2000;	2000WO-US020710.
PR	15-MAY-1998;	98US-0085689P.	PR	08-NOV-2000;	2000US-00709238.
PR	15-MAY-1998;	98US-0085697P.	PR	27-NOV-2000;	2000US-00723749.
PR	15-MAY-1998;	98US-0085704P.	PR	01-DEC-2000;	2000WO-US032678.
PR	18-MAY-1998;	98US-0086023P.	PR	20-DEC-2000;	2000US-00747259.
PR	22-MAY-1998;	98US-0086392P.	PR	20-DEC-2000;	2000WO-US034956.
PR	22-MAY-1998;	98US-0086414P.	PR	28-FEB-2001;	2001WO-US006520.
PR	22-MAY-1998;	98US-0086430P.	PR	22-MAR-2001;	2001US-00816744.
PR	22-MAY-1998;	98US-0086486P.	PR	22-MAR-2001;	2001US-00816920.
PR	28-MAY-1998;	98US-0087098P.	PR	10-MAY-2001;	2001US-00854208.
PR	28-MAY-1998;	98US-0087106P.	PR	10-MAY-2001;	2001US-00854280.
PR	28-MAY-1998;	98US-0087208P.	PR	25-MAY-2001;	2001US-00817092.
PR	26-JUN-1998;	98US-00105413.	PR	01-JUN-2001;	2001US-00872035.
PR	26-JUN-1998;	98US-0090863P.	PR	01-JUN-2001;	2001WO-US017800.
PR	26-JUN-1998;	98US-0091010P.	PR	05-JUN-2001;	2001US-00874503.
PR	01-JUL-1998;	98US-0091359P.	PR	14-JUN-2001;	2001US-00882636.
PR	30-JUL-1998;	98US-0094651P.	PR	19-JUN-2001;	2001US-00886342.
PR	11-SEP-1998;	98US-0100038P.	PR	20-JUN-2001;	2001WO-US019692.
PR	07-OCT-1998;	98US-00168978.	PR	29-JUN-2001;	2001WO-US021066.
PR	07-OCT-1998;	98WO-US021141.	PR	09-JUL-2001;	2001WO-US021735.
PR	02-NOV-1998;	98US-00184216.	PR	30-JUL-2001;	2001US-00918585.
PR	06-NOV-1998;	98US-00187368.	XX	(GETH) GENENTECH INC.	
PR	20-NOV-1998;	98US-0109304P.	PA		
PR	20-NOV-1998;	98WO-US024855.	XX		
PR	07-DEC-1998;	98US-00202054.	XX		
PR	22-DEC-1998;	98US-00218517.	PI	Ashtenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PR	22-DEC-1998;	98US-0113296P.	PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;	
PR	23-DEC-1998;	98US-0113621P.			
PR	05-JAN-1999;	99WO-US000106.			
PR	05-MAR-1999;	99US-00254465.			
PR	08-MAR-1999;	99WO-US005028.			
PR	10-MAR-1999;	99US-00265686.			
PR	10-MAR-1999;	99WO-US005190.			

Query Match 37.2%; Score 208.5; DB 6; Length 125;
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RESULT 24
ABO33774
ID ABO33774 standard; protein; 125 AA.

AC ABO33774;

DT 17-SEP-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO788.

Human; secreted and transmembrane protein; PRO; cytostatic;
antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha;
chondrocyte stimulator; pericyte stimulator; fibroblast modulator;
pharmaceutical; diagnostic; biosensor; bioreactor; tumour; lung tumour;
colon tumour; breast tumour; prostate tumour; rectal tumour;
liver tumour; bone disorder; cartilage disorder; sports injury;
arthritis; wound.

OS Homo sapiens.

XX
PN
US2003045687-A1.

06-MAR-2003.

12-AUG-2002; 2002US-00218631.

PR 01-JUN-2001; 2001WO-US017800.

29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.

PA (GETH) GENENTECH INC.

Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski P.T.

GRIMMARD UC, GUINNEY AL, SMITH V, STEPHAN JF, WATANABE CK, WOOD WI;
F1
F2
XX

DR N-PSDB; ACD68662.

PT New genes, and it

useful for stimulating tumor necrosis factor alpha, or chondrocyte or pericyte proliferation, especially for treating lung tumors, arthritis or wounds in a mammal.

PS Claim 11; Fig 140; 314pp: English.

The invention describes an isolated nucleic acid molecule comprising a sequence with at least 80% identity to: (a) a nucleotide encoding any of 122 PRO (secreted and transmembrane) polypeptides whose sequences are fully defined in the specification; or (b) any of 122 nucleotide sequences having e.g. 4834, 2504 or 1759 bp fully defined in the specification; or the full length coding sequence of any these 122 nucleotide sequences. The PRO polypeptides or polynucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting tumours (e.g. lung tumour, colon tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour) in a mammal, for stimulating the release of TNP-alpha from human blood, for stimulating the proliferation or differentiation of chondrocyte cells, for stimulating proliferation of pericyte cells, or for modulating normal human dermal fibroblast proliferation. The PRO nucleic acid or polypeptide is also useful for treating tumours or various bone and/or cartilage disorders (e.g. sports injuries or arthritis), or wounds. The PRO polypeptides are useful in drug screening, particularly as targets for therapeutic intervention in these diseases, and in the diagnostic determination of the presence of these diseases. The PRO polypeptides are

DR N-PSDB; ACA63840.
XX
PT New secreted and transmembrane nucleic acids and polypeptides, designated
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
PT cancer.
XX
PS Claim 12; Fig 185; 453pp; English.
XX
CC The invention describes an isolated nucleic acid (I) comprising, or which
CC is at least 80 % sequence identity to, or the full-length coding sequence
CC of, any of 118 300-2100 nucleotide sequences, which encodes its
CC corresponding PRO polypeptide selected from 118 100-700 amino acid
CC sequences, all given in the specification. The nucleic acids and
CC polypeptides are useful for treating inflammatory diseases, organ
CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
CC premature aging, AIDS, cancer, or diabetic complications. The nucleic
CC acids are useful as hybridisation probes, in chromosome and gene mapping,
CC and in generating antisense RNA or DNA. The polypeptides are useful as
CC pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful
CC in tissue typing. This is the amino acid sequence of a novel human
CC secreted and transmembrane PRO polypeptide
XX
SQ Sequence 125 AA;
Query Match 37.2%; Score 208.5; DB 6; Length 125;
Best Local Similarity 42.6%; Pred. No. 2.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
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Search completed: November 10, 2005, 07:54:49
Job time : 169 secs

PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080155P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98WO-US024855.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 24-FEB-2000; 2000WO-US004341.
PR 02-MAR-2000; 2000WO-US005004.
PR 10-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US007532.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Shelton DL;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2003-328860/31.

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:49:02 ; Search time 164 Seconds
(without alignments)
262.782 Million cell updates/sec

Title: US-10-826-788-2

Perfect score: 560

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Gapop 10.0 , Gapext 0.5

Searched: 1867879 seqs, 418409474 residues

Total number of hits satisfying chosen parameters: 1867879

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

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- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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3	212.5	37.9	125	11 US-09-833-245-1177	Sequence 1177, Ap
4	212.5	37.9	125	11 US-09-833-245-1179	Sequence 1179, Ap
5	208.5	37.2	125	9 US-09-978-295A-454	Sequence 454, App
6	208.5	37.2	125	9 US-09-978-697-454	Sequence 454, App
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10	208.5	37.2	125	10 US-09-978-608A-454	Sequence 454, App
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12	208.5	37.2	125	10	US-09-978-191A-454	Sequence 454, App
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ALIGNMENTS

RESULT 1
US-10-723-860-1530
; Sequence 1530, Application US/10723860
; Publication No. US20040255606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NFUS01
; CURRENT APPLICATION NUMBER: US/10723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1530
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; ORGANISM: Homo sapiens
US-10-723-860-1530

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; Sequence 2, Application US/10826788
; Publication No. US20050004025A1
; GENERAL INFORMATION:
; APPLICANT: Chiment et al.
; TITLE OF INVENTION: SLURP-1 Compositions and Methods of Use Thereof
; FILE REFERENCE: 20349-564
; CURRENT APPLICATION NUMBER: US/10/826,788
; CURRENT FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: 60/463,418
; PRIOR FILING DATE: 2003-04-16
; NUMBER OF SEQ ID NOS: 6
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; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1177
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-1177

Query Match 37.9%; Score 212.5; DB 11; Length 125;
Best Local Similarity 43.8%; Pred. No. 5.7e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;
Qy 8 QLLIVAAWSMGCGE---ALKCYTCCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYPPN 64
Db 5 QLVLALVLAACGELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTLYSREIVYPPQ 64
Qy 65 QSPVTVTRSCSSSCVATDPDSIGAHLIFCCFRDLN 100
Db 65 GDSVTWKSCASKKPSVDVGIGQTLVPVSCCNTEL 100

RESULT 4
US-09-833-245-1179
; Sequence 1179, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1179

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; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-1179

Query Match 37.9%; Score 212.5; DB 11; Length 125;
Best Local Similarity 43.8%; Pred. No. 5.7e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;

QY 8 QLLIVAAMSVCGE---ALKCYTCCKPMTSASCRITTRCKPBDTACTMTTLTVTVEAYEPN 64
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Db 5 QLVLLALVLAACGELAPALRCYCPBPTGVSDCVIATCTTNETWCKTLLYSREIVYFPQ 64
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QY 65 QSPVVTSCSSSCVATDPDSIGAHLIFCCFRDLCN 100
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Db 65 GDSVTYTKSCASKCKPSPVDVGIGOTLPVSCNTLNCN 100
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RESULT 5
US-09-978-295A-454
; Sequence 454, Application US/09978295A
; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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; PRIOR APPLICATION NUMBER: 60/082569
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; PRIOR APPLICATION NUMBER: 60/082704

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Query Match 37.2%; Score 208.5; DB 9; Length 125;

[illegible]

3 SRWAVALLVAWSMGCGE---ALKCYTCKEPMTSASCRITRCKPEDTACMTTLVTVEA 59
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 60 YYPFNQSPVTVTRSCSSCVATDPDSIGAAHLIFCCFRDLCLN 100
 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLFVSCNTELCN 100

RESULT 8
 US-09-999-832A-454
 ; Sequence 454, Application US/09999832A
 ; Publication No. US20020192706A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James;
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630P1C63
 ; CURRENT APPLICATION NUMBER: US/09/999, 832A
 ; CURRENT FILING DATE: 2001-10-24
 ; PRIOR APPLICATION NUMBER: 09/918585
 ; PRIOR FILING DATE: 2001-07-30
 ; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 9; Length 125;
Best Local Similarity 42.6%; Pred.No.1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVOLLVAWSMCGE---ALKCYTCCKEPMTSASCRITTRCKPEPTACMTTLTVVEA 59
Db 4 TELALLALVLA---CGELAPALRCYVCPPTGVSDCVTIATCTTNETMCKTTLYSREI 59

QY 60 EYPNQPVVTRSCSSCVATDPDSIGAHLIFCCFRDLGN 100
Db 60 VYFQGDSTVTKCASKCKPSVDVGIGQTLVPVSCCNTELGN 100

RESULT 9

US-09-978-189-454
; Sequence 454, Application US/09978189
; Publication No US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC7
; CURRENT APPLICATION NUMBER: US/09/978,189
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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Db 60 VYPFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTELCLN 100

RESULT 10

US-09-978-608A-454

; Sequence 454, Application US/09978608A

; Publication No. US20030045462A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

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; APPLICANT: Gerber, Hanspeter

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; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kijavin, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2630P1C22

; CURRENT APPLICATION NUMBER: US/09/978,608A

; CURRENT FILING DATE: 2001-10-16

; NUMBER OF SEQ ID NOS: 624

; Prior Application removed - See File Wrapper or Palm

; SEQ ID NO 454

; LENGTH: 125

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-978-608A-454

Query Match 37.2%; Score 208.5; DB 10; Length 125;

Best Local Similarity 42.6%; Pred. No. 1.5e-13;

Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVQLLVAAWSMGCGE---ALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEA 59

Db 4 TRLALLALVLA---CGELAPALRCVCPETGTGSDCVIATCTTNETMCKTTLYSREI 59

Qy 60 EYFNFQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRDLCLN 100

Db 60 VYPFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTELCLN 100

RESULT 11

US-09-978-585A-454

; Sequence 454, Application US/09978585A

; Publication No. US20030049633A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; PRIOR FILING DATE: 1998-04-28

; PRIOR APPLICATION NUMBER: 60/083392

; PRIOR FILING DATE: 1998-04-29

; PRIOR APPLICATION NUMBER: 60/083495

; PRIOR FILING DATE: 1998-04-29

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; PRIOR FILING DATE: 1998-04-29

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; PRIOR FILING DATE: 1998-04-29

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; PRIOR FILING DATE: 1998-04-29

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; PRIOR FILING DATE: 1998-04-29

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; PRIOR APPLICATION NUMBER: 60/083559

; PRIOR FILING DATE: 1998-04-29

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; PRIOR FILING DATE: 1998-04-29

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; PRIOR FILING DATE: 1998-05-06

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; PRIOR FILING DATE: 1998-05-07

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; PRIOR FILING DATE: 1998-05-07

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; PRIOR FILING DATE: 1998-05-07

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; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085700

; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085689

; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085579

; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085580

; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085573

; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085704

; PRIOR FILING DATE: 1998-05-15

; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;

Best Local Similarity 42.6%; Pred. No. 1.5e-13;

Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVQLLVAAWSMGCGE---ALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEA 59

Db 4 TRLALLALVLA---CGELAPALRCVCPETGTGSDCVIATCTTNETMCKTTLYSREI 59

Qy 60 EYFNFQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRDLCLN 100

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; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
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; PRIOR APPLICATION NUMBER: 60/079920
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
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; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080165
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080334

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLVAAWSMGCE---ALKCYCKEPTWTSASCTTTRCKPETAACWTLVTVEA 59
Db 4 TRLALLLVLA---CCELAPALSCYVCPEPTGVSDCVTTATCTTNETMCKTTLYSREI 59

QY 60 EYPFNQSPVTVKSCASKKPSDVGIGQTLVPSCCNTELCN 100
Db 60 VYFQGDSTVTVKSCASKKPSDVGIGQTLVPSCCNTELCN 100

RESULT 12
US-09-978-191A-454
; Sequence 454, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
```

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/ PRIOR APPLICATION NUMBER: 60/084598
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084600
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084627
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084643
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/085339
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085338
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085323
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085582
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085700
/ PRIOR FILING DATE: 1998-05-15
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/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085579
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085580
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085573
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085704
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRNAVQLLLVAANSMGCGE---ALKCVYCKEPMTSASCRITTRCKPBDTACTMTTLVTVEA 59
Db 4 TRLLALLALVLA---CGELAPALRCYVCEPTGVSDCVTIATCTTNETWCKTLYSREI 59

Qy 60 EYPFNQSPVVTTRSCSSSCVATDPDSIGAHLIFCCFRDLN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQLPLVSCCNELCN 100

RESULT 13
US-09-978-403A-454
; Sequence 454, Application US/09978403A
; Publication No. US20030050240A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deanoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gersitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
```

APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC17
CURRENT APPLICATION NUMBER: US/09/978,403A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
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PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
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PRIOR APPLICATION NUMBER: 60/084600

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; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVQLLVNANSMGCGE---ALKCYTCCKEPMTSASCRITTRCKPBDTACMTTLVTVEA 59
Db 4 TRLLALVLVLA---CGELAPALRCVYCPPTGVSDCVIATCTTNETCKTLYSREI 59

Qy 60 EYPENQSPVTVTRSSSCSVATDPDSIGAHLIFCCFRDLN 100
Db 60 VYFQGSVTYKSCASKCKPSDVGIGQTLFVSCNTELCN 100

RESULT 14
US-09-978-564A-454
; Sequence 454, Application US/09978564A
; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
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; PRIOR APPLICATION NUMBER: 60/080105
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMCGGE---ALKCYTCCKEPTWSASCRITTRCKPEDTACMTTLVTVEA 59
Db 4 TRLALLALVIAA---CGELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTTLYSREI 59
QY 60 EYFFNQSPVWTRSCSSSVATPDPSIGAAHLIFCCFRDLN 100
Db 60 VYFQGDSTVTKSCASKCKPSPVDGIGQTLPVSCCNTELN 100

RESULT 15

US-09-999-833A-454
; Sequence 454, Application US/09999833A
; Publication No. US20030054405A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: KJavan, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC65
; CURRENT APPLICATION NUMBER: US/09/999, 833A

1 CURRENT FILING DATE: 2001-10-24
2 PRIOR APPLICATION NUMBER: 09/918585
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4 PRIOR APPLICATION NUMBER: 60/081229
5 PRIOR FILING DATE: 1998-04-09
6 PRIOR APPLICATION NUMBER: 60/062250
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8 PRIOR APPLICATION NUMBER: 60/064249
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14 PRIOR APPLICATION NUMBER: 60/077450
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 PRIOR APPLICATION NUMBER: 60/085697

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Query Match      37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches         43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
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60 EYPENQSPWTRSCSSCVATDPDSIGAHLIFCCFRDLN 100
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60 VYPFGDSTVTKSASKCKPSDVDIGQTFLPVSVCNTLGN 100
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USUT 16
-09-981-915A-454
Sequence 454, Application US/09981915A
Publication No. US20030054986A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertieen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Khlavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secrets and Transmem
FILE OF INVENTION: Acids Encoding the
FILE REFERENCE: P2630P1C12
CURRENT APPLICATION NUMBER: US/09/981.9
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30

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/ PRIOR FILING DATE: 1998-04-09
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Query Match 37.2%; Score 208.5; DB 10; Length 125;
 Best Local Similarity 42.8%; Pred. No. 1.5e-13;
 Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRNAVOLLVAAWSMGGE---ALKCVTKCEPMTSASCRITTRCKPEDTACMTTLVTVEA 59
 Db 4 TRLLALLVLAA---CGELAPALRCYVCEPTGVSDCVTIATCTTNETWCKTLYSREI 59
 QY 60 EYFNGSPVVTTRSCSSCVADPDPSIGAAHLIFCCFRDLGN 100
 Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTELGN 100

RESULT 17
 US-09-978-824-454
 / Sequence 454, Application US/09978824
 / Publication No. US20030055216A1
 / GENERAL INFORMATION:
 / APPLICANT: Ashkenazi, Avi
 / APPLICANT: Baker Kevin P.
 / APPLICANT: Botstein, David
 / APPLICANT: Desnoyers, Luc
 / APPLICANT: Eaton, Dan
 / APPLICANT: Ferrara, Napoleon
 / APPLICANT: Filvaroff, Ellen
 / APPLICANT: Fong, Sherman
 / APPLICANT: Gao, Wei-Qiang
 / APPLICANT: Gerber, Hanspeter
 / APPLICANT: Gertsen, Mary E.
 / APPLICANT: Goddard, Audrey
 / APPLICANT: Godowski, Paul J.
 / APPLICANT: Grimaldi, J. Christopher
 / APPLICANT: Gurney, Austin L.
 / APPLICANT: Hillan, Kenneth J.
 / APPLICANT: Kljavin, Ivar J.
 / APPLICANT: Kuo, Sophia S.
 / APPLICANT: Napier, Mary A.
 / APPLICANT: Pan, James;
 / APPLICANT: Paoni, Nicholas F.
 / APPLICANT: Roy, Margaret Ann
 / APPLICANT: Shelton, David L.
 / APPLICANT: Stewart, Timothy A.
 / APPLICANT: Tumas, Daniel
 / APPLICANT: Williams, P. Mickey
 / APPLICANT: Wood, William I.
 / TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 / TITLE OF INVENTION: Acids Encoding the Same
 / FILE REFERENCE: P2630PIC14
 / CURRENT APPLICATION NUMBER: US/09/978,824
 / CURRENT FILING DATE: 2001-10-17
 / PRIOR APPLICATION NUMBER: 09/918585
 / PRIOR FILING DATE: 2001-07-30
 / PRIOR APPLICATION NUMBER: 60/062250
 / PRIOR FILING DATE: 1997-10-17
 / PRIOR APPLICATION NUMBER: 60/064249

1 PRIOR FILING DATE: 1997-11-03
2 PRIOR APPLICATION NUMBER: 60/065311
3 PRIOR FILING DATE: 1997-11-13
4 PRIOR APPLICATION NUMBER: 60/066364
5 PRIOR FILING DATE: 1997-11-21
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16 PRIOR APPLICATION NUMBER: 60/078004
17 PRIOR FILING DATE: 1998-03-13
18 PRIOR APPLICATION NUMBER: 60/078886
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRVAVQLLLVAWSMGCE--ALKCYTCCKEPMTSASCRITTRCKPBDTACMTPLVTVEA 59
Db 4 TRLLALLVLLAA-----CGELAPALRCYVCPEPTGVSDCVIATCTTNETWCKTLYSREI 59

Qy 60 EYPNQSPVWTRSSCVATDPDSIGAHLIFCCFRDLGN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVBGIGOTLPVSCNTELCN 100

RESULT 18
US-09-918-585A-454
; Sequence 454, Application US/09918585A
; Publication No. US20030060406A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C1
; CURRENT APPLICATION NUMBER: US/09/918,585A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/086023

Query Match 37.2%; Score 208.5; DB 10; Length 125;

Best Local Similarity 42.6%; Pred. No. 1.5e-13;

Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

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Db 4 TRLALALVLAA-----CGELAPALRCYVCPEPTGVSDCVTATCTTNETMCKTTLYSREI 59

QY 60 EYFENQSPVTVTRSSSCSVATDPDPSIGAAHLIFCCFRDLGN 100

Db 60 VYFQGDSTVIKSCASKCKPSDVGIGQTLPSCCNTELCN 100

RESULT 19

US-09-999-834A-454

; Sequence 454, Application US/09999834A

; Publication No. US20030064407A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Deanoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrata, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Kenneth J.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2630PIC75

; CURRENT APPLICATION NUMBER: US/09/999,834A

; CURRENT FILING DATE: 2001-10-24

; PRIOR APPLICATION NUMBER: 09/918585

; PRIOR FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/064249

; PRIOR FILING DATE: 1997-11-03

; PRIOR APPLICATION NUMBER: 60/065311

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; PRIOR APPLICATION NUMBER: 60/066364

; PRIOR FILING DATE: 1997-11-21

; PRIOR APPLICATION NUMBER: 60/077450

[illegible]


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: PRIOR APPLICATION NUMBER: 60/085704
: PRIOR FILING DATE: 1998-05-15
: PRIOR APPLICATION NUMBER: 60/085697
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	Query Match	37.2%; Score 208.5; DB 10;	Length 125;
	Best Local Similarity	42.6%; Pred.No.1.5e-13;	
	Matches 43; Conservative 13; Mismatches 38;	Indels 7; Gaps 2;	
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	:	:	:
Dy	60 EYPFNQSPVWTSCSSSVADDPDSIGAAHLIFCCFRDLN		100
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RESULT 20

US-09-978-423A-454
Sequence 454, Application US/09978423A
Publication No. US20030069178A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C21
CURRENT APPLICATION NUMBER: US/09/978,423A
CURRENT FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-11-03
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PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11

7	PRIOR APPLICATION NUMBER: 60/077641
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7	PRIOR FILING DATE: 1998-03-31
7	PRIOR APPLICATION NUMBER: 60/080327
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7	PRIOR APPLICATION NUMBER: 60/080328
7	PRIOR FILING DATE: 1998-04-01
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7	PRIOR FILING DATE: 1998-04-08
7	PRIOR APPLICATION NUMBER: 60/081203
7	PRIOR FILING DATE: 1998-04-09
7	PRIOR APPLICATION NUMBER: 60/081229
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7	PRIOR FILING DATE: 1998-04-15
7	PRIOR APPLICATION NUMBER: 60/081838
7	PRIOR FILING DATE: 1998-04-15
7	PRIOR APPLICATION NUMBER: 60/082568

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; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13; Indels 7; Gaps 2;
Matches 43; Conservative 13; Mismatches 38;

Qy 3 SRWAVQLLVAAWSMCGGE---ALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEA 59
Db 4 TRIALALALVLA---CGELAPALRCVVCPEPTGVSDCVTIATCTTNETMCKTLYSREI 59
Qy 60 EYFNPQSPVVTSCSSSCSVATPDSIGAAHLIFCCPRDLON 100
Db 60 VYFQGDSTVTKSCASKCKPSPDVGIGQTLPSVSCCNTELON 100

RESULT 21
US-09-978-193A-454
; Sequence 454, Application US/09978193A
; Publication No. US20030073624A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Nepier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PlC6
; CURRENT APPLICATION NUMBER: US/09/978,193A
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
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; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649

[illegible]

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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
Query Match          37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
QY      3 SRWAVOLLVAAMSGGCE---ALKCVTKCKEPTWSASCRITIFCKPEDTACMTTLVTVEA 59
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Db      4 TRLALLALVLAA----CGELAPALRCVCPEPTGVSDCVTIATCTTNETMCKTTLYSREI 59
        |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:~::~::|:|:|:|:|:|
QY      60 EYPFNQSPVTRSCSSCVATDPDPSICGAHLIFCCPRDLCLN 100
        |||||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:~::~::|:|:|:|:|:|
Db      60 VYPEFGDSVTVKSCASKCKPDSVDVGIGTGTLFVSCCNTELNCN 100
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RESULT 22
US-09-993-830A-454
; Sequence 454, Application US/09999830A
; Publication No. US20030077700A1
GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
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; APPLICANT: Gao, Wei-Qiang
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; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Wickey
; APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC70
CURRENT APPLICATION NUMBER: US/09/999,830A
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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US-09-978-757A-454
; Sequence 454, Application US/09978757A
; Publication No. US20030083248A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C26
; CURRENT APPLICATION NUMBER: US/09/978,757A
; CURRENT FILING DATE: 2002-03-19
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; PRIOR FILING DATE: 1998-05-06
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; PRIOR FILING DATE: 1998-05-07
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; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
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; PRIOR APPLICATION NUMBER: 60/084627
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; PRIOR APPLICATION NUMBER: 60/084643
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred: No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Db 4 TRALLALVLA-----CGELAPALRCVCPETGSDCVTIATCTTNETMCKTLYSREI 59

QY 60 EYFPNQSPVVTSCSSCVATDPDSIGAAHLIFCCFRDLN 100

Db 60 VYFPQGDSTVTKSCASKCKPSVDVGIGQTLPVSCCNTELN 100

RESULT 25

US-09-978-643A-454

; Sequence 454, Application US/09978643A

; Publication No. US20030104998A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2630P1C16

; CURRENT APPLICATION NUMBER: US/09/978,643A

; CURRENT FILING DATE: 2001-10-16

; NUMBER OF SEQ ID NOS: 624

; Prior Application removed - See File Wrapper or Palm

; SEQ ID NO 454

; LENGTH: 125

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-978-643A-454

Query Match 37.2%; Score 208.5; DB 10; Length 125;

Best Local Similarity 42.6%; Pred. No. 1.5e-13;

Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMCGCGE---ALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTEA 59

Db 4 TRALLALVLA-----CGELAPALRCVCPETGSDCVTIATCTTNETMCKTLYSREI 59

QY 60 EYFPNQSPVVTSCSSCVATDPDSIGAAHLIFCCFRDLN 100

Db 60 VYFPQGDSTVTKSCASKCKPSVDVGIGQTLPVSCCNTELN 100

Search completed: November 10, 2005, 07:57:37

Job time : 167 secs

Query Match 37.2%; Score 208.5; DB 10; Length 125;

Best Local Similarity 42.6%; Pred. No. 1.5e-13;

Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMCGCGE---ALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTEA 59

Db 4 TRALLALVLA-----CGELAPALRCVCPETGSDCVTIATCTTNETMCKTLYSREI 59

QY 60 EYFPNQSPVVTSCSSCVATDPDSIGAAHLIFCCFRDLN 100

Db 60 VYFPQGDSTVTKSCASKCKPSVDVGIGQTLPVSCCNTELN 100

Search completed: November 10, 2005, 07:57:37

Job time : 167 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 10, 2005, 07:49:03 ; Search time 39 Seconds
(without alignments)
254.111 Million cell updates/sec

Title: US-10-826-788-2
Perfect score: 560
Sequence: 1 MASRWAVQLLLVAWSMGCG.....SIGAAHLIFCCFRDLNSEL 103

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : PIR 79:.*
1: pir1:.*
2: pir2:.*
3: pir3:.*
4: pir4:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	111	19.8	131	2 I56012	lymphocyte differe
3	108	19.3	126	2 S53340	CD59 protein - rat
4	108	19.3	128	1 RWHU59	surface glycoprote
5	100.5	17.9	127	1 A46528	phosphatidylinosit
6	100.5	17.9	128	1 A57321	E48 antigen precur
7	100.5	17.9	130	2 I54553	gene ThB protein -
8	99	17.7	126	2 I36914	CD59 protein - bab
9	98	17.5	128	2 I36894	CD59 protein - gre
10	92	16.4	134	2 D45835	Ly6 homolog RK3 pr
11	91	16.2	1322	2 T15689	hypothetical prote
12	90.5	16.2	134	2 A32506	Ly-6.2 protein pre
13	90	16.1	63	2 S03864	fasciotoxin - band
14	88.5	15.8	136	2 I49013	thymic shared anti
15	87.5	15.6	111	2 I48640	neurotoxin homolog
16	87.5	15.6	134	2 A25708	Ly-6.1 protein pre
17	87.5	15.6	145	2 T22693	hypothetical prote
18	86.5	15.4	134	2 I48639	neurotoxin homolog
19	85.5	15.3	84	2 I51698	pre-xenoxin-1 - Af
20	82.5	14.7	131	2 I56894	complement regulat
21	82	14.6	135	2 A45835	Ly6 homolog RK10 p
22	80	14.3	330	1 JN0561	urokinase-type pla
23	79	14.1	65	1 V6NJ3E	venom protein CM-1
24	77.5	13.8	653	2 T16553	hypothetical prote
25	77	13.8	65	1 V6NJ1Y	venom protein CM-1
26	76.5	13.7	512	2 T26414	hypothetical prote
27	76	13.6	65	2 S16021	neurotoxin 8 - ind
28	75.5	13.5	490	2 T32003	hypothetical prote
29	74.5	13.3	82	2 S70375	cardiotoxin VII pr

30	74.5	13.3	728	2 T20561	hypothetical prote
31	73.5	13.1	1308	2 A47253	epidermal growth f
32	73	13.0	600	2 T18593	hypothetical prote
33	72.5	12.9	650	2 A34498	glycoprotein anti
34	72	12.9	65	2 S16020	neurotoxin 7 - ind
35	72	12.9	425	2 T18592	hypothetical prote
36	72	12.9	718	2 JC5805	transcription fact
37	71.5	12.8	68	2 A59187	gamma-bungarotoxin
38	70.5	12.6	335	2 A39743	u-plasminogen acti
39	70.5	12.6	2718	2 A23475	G surface protein
40	69.5	12.4	708	2 T19474	hypothetical prote
41	69	12.3	65	1 V6NJ4W	venom protein S4C1
42	69	12.3	298	2 D96599	protein F20N2.16 l
43	68.5	12.2	222	2 B41643	urokinase-type pla
44	68.5	12.2	222	2 B55356	urokinase-type pla
45	68.5	12.2	327	2 A55356	urokinase-type pla
46	68.5	12.2	3020	2 A43932	mucin 2 precursor,
47	68	12.1	83	2 S70374	cardiotoxin V prec
48	68	12.1	787	2 A55034	6-phosphofructokin
49	67.5	12.1	1104	2 I38869	transcription fact
50	67	12.0	273	2 T16246	hypothetical prote
51	67	12.0	1612	2 JC5210	DNA (cytosine-5')-
52	66.5	11.9	478	2 S47040	gene Tt52 protein
53	66	11.8	60	2 A82662	hypothetical prote
54	66	11.8	281	2 S39495	u-plasminogen acti
55	66	11.8	501	2 T25093	hypothetical prote
56	66	11.8	802	2 T24293	hypothetical prote
57	66	11.8	949	2 T24294	hypothetical prote
58	65.5	11.7	148	2 D49530	16k vascular endot
59	65.5	11.7	330	2 T41967	hypothetical prote
60	65.5	11.7	420	2 G97801	hypothetical prote
61	65	11.6	265	2 T33695	hypothetical prote
62	65	11.6	285	2 I77964	SP-10 - western ba
63	65	11.6	314	2 T27686	hypothetical prote
64	65	11.6	389	2 T46722	conserved hypothet
65	65	11.6	714	2 T4080	hypothetical prote
66	65	11.6	5376	2 T42215	zonadhesin - mouse
67	64.5	11.5	239	2 T31881	hypothetical prote
68	64.5	11.5	248	2 T03868	hypothetical prote
69	64.5	11.5	453	2 G96695	hypothetical prote
70	64.5	11.5	505	2 I53417	hypothetical prote
71	64.5	11.5	511	2 A82808	type I serine-thre
72	64.5	11.5	511	2 D97587	two component sens
73	64.5	11.5	633	2 T27499	non-motile and pha
74	64.5	11.5	1475	2 S42718	hypothetical prote
75	64	11.4	61	1 SMMK1	nuclear pore compl
76	64	11.4	265	2 A37225	metallothionein 1
77	64	11.4	278	2 T20478	acrosomal protein
78	64	11.4	330	2 T25169	hypothetical prote
79	64	11.4	728	2 T09457	hypothetical prote
80	64	11.4	768	2 B41029	numb-binding prote
81	63.5	11.3	63	2 S08190	integrin beta-8 ch
82	63.5	11.3	127	2 T30062	metallothionein 1
83	63.5	11.3	223	2 B38346	hypothetical prote
84	63.5	11.3	335	2 T31561	ultra-high-sulfur
85	63.5	11.3	335	2 T31559	hypothetical prote
86	63.5	11.3	335	2 T31560	hypothetical prote
87	63.5	11.3	473	2 S20612	triacylglycerol li
88	63.5	11.3	499	2 JC2062	hypothetical prote
89	63.5	11.3	503	2 UC2061	transforming growt
90	63.5	11.3	873	1 I48952	transforming growt
91	63.5	11.3	1106	2 T13938	VLDL receptor prec
92	63	11.2	57	1 T2NJBE	gene shuttle craft
93	63	11.2	61	1 SMHU1G	short toxin CM-1b
94	63	11.2	61	1 T57572	metallothionein 1G
95	63	11.2	232	2 A60095	metallothionein II
96	63	11.2	244	2 T31838	larval glue protei
97	63	11.2	365	2 S50610	hypothetical prote
98	63	11.2	467	2 T26195	hypothetical prote
99	63	11.2	2090	2 T30075	hypothetical prote
100	63	11.2	2395	1 S50820	surface protein ty

ALIGNMENTS

RESULT 1

A59031

ARS component B 81/S protein precursor - human

N;Alternate names: secreted Ly-6/uPAR related protein 1; SLURP-1

C;Species: Homo sapiens (man)

C;Date: 09-Apr-1999 #sequence_revision 09-Apr-1999 #text_change 09-Jul-2004

C;Accession: A59031; A58842

R;Mastrangelo, R.

submitted to the EMBL Data Library, August 1996

A;Description: ARS gene, component B.

A;Reference number: A59031

A;Accession: A59031

A;Status: translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-103 <MAS>

A;Cross-references: UNIPROT:P55000; GB:X99977; NID:g1536901; PIDN:CAA68237.1; PID:e26552

A;Experimental source: placenta

R;Adermann, K.; Wattler, F.; Wattler, S.; Heine, G.; Meyer, M.; Forssmann, W.G.; Nehls,

submitted to the Protein Sequence Database, July 1998

A;Description: Secreted protein, related to Ly-6, uPAR, soluble CD59, and snake and frog

A;Reference number: A58842

A;Accession: A58842

A;Molecule type: protein

A;Residues: 23-103 <ADE>

C;Genetics:

A;Gene: ARS

A;Introns: 20/1; 60/1

C;Keywords: glycoprotein

F;1-18/Domain: signal sequence #status predicted <SIG>

F;19-20/Domain: propeptide #status predicted <PRO>

F;23-103/Product: ARS component B 81/S protein #status experimental <MAT>

F;25-50,28-37,94-99/Disulfide bonds: #status experimental

F;43-77,73-93/Disulfide bonds: (or 43-73, 77-93) #status experimental

F;64/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 100.08; Score 560; DB 2; Length 103;

Best Local Similarity 100.08; Pred. No. 2.8e-44; Indels 0; Gaps 0;

Matches 103; Conservative 0;

Qy 1 MASRWAVQLLLVAWSMCGEALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60

Db 1 MASRWAVQLLLVAWSMCGEALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60

Qy 61 YPFNQSPVVTTRSCSSCVATPDSIGAHLIFCCFRDLNSEL 103

Db 61 YPFNQSPVVTTRSCSSCVATPDSIGAHLIFCCFRDLNSEL 103

RESULT 2

I56012

Lymphocyte differentiation antigen Ly-6C - mouse

C;Species: Mus musculus (house mouse)

C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004

C;Accession: I56012; I56010

R;Palfree, R.G.B.; Sirlin, S.; Dumont, F.J.; Haemmerling, U.

J. Immunol. 140, 305-310, 1988

A;Title: N-Terminal and cDNA Characterization of Murine Lymphocyte Antigen Ly-6C.2.

A;Reference number: I56012; MUID:88088825; PMID:3335781

A;Accession: I56012

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-131 <PAL>

A;Cross-references: UNIPROT:P09568; GB:M18466; NID:g198927; PIDN:AAA39466.1; PID:g198928

R;Botwell, A.L.M.; Pace, P.E.; LeClair, K.P.

J. Immunol. 140, 2815-2820, 1988

A;Title: Isolation and Expression of an IFN-responsive Ly-6C chromosomal gene.

A;Reference number: I56010; MUID:88187399; PMID:3356904

A;Accession: I56010

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-84,'R',86-125,'V',127-131 <BOT>

A;Cross-references: GB:M21734; NID:g198935; PIDN:AAA39469.1; PID:g387409

C;Genetics:

A;Gene: Ly-6C

A;Introns: 24/1; 63/1

C;Superfamily: Ly-6 antigen; Ly-6 homology

Query Match 19.8%; Score 111; DB 2; Length 131;

Best Local Similarity 29.8%; Pred. No. 0.0026;

Matches 31; Conservative 14; Mismatches 49; Indels 10; Gaps 4;

Qy 2 ASRWAVQLLLVAWSMCGEALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 61

Db 6 ATKSCILLIIVALLCAGRAQGLQCYECYGVPIETSPAVT-CRASDGFQIAQ--NIELIE 62

Qy 62 PFNQSPVVTTRSCSSCVATPDSIGAHLIFCCFRDLNLS 101

Db 63 DSORRKLKTRQCLSFPCPAGVPIKDPN---IRERTSCSEDLCA 103

RESULT 3

S53340

CD59 protein - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 01-Aug-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004

C;Accession: S53340; S53339

R;Rushmere, N.K.; Harrison, R.A.; van den Berg, C.W.; Morgan, B.P.

Biochem. J. 304, 595-601, 1994

A;Title: Molecular cloning of the rat analogue of human CD59: structural comparison with

A;Reference number: S53339; MUID:95091697; PMID:7528012

A;Accession: S53340

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-126 <RUS>

A;Cross-references: UNIPROT:P27274; GB:U48255; NID:g1199654; PIDN:AAA88909.1; PID:g1199654

A;Accession: S53339

A;Status: preliminary

A;Molecule type: protein

A;Residues: 23-24,'X',26-27,'X',29-34,'X',36-37,'X',39-40,'X',42-47,'X',49-58,'X',60,'X'

C;Superfamily: Ly-6 antigen; Ly-6 homology

F;23-101/Domain: Ly-6 homology <LY6>

Query Match 19.3%; Score 108; DB 2; Length 126;

Best Local Similarity 30.7%; Pred. No. 0.0048;

Matches 31; Conservative 20; Mismatches 40; Indels 10; Gaps 5;

Qy 1 MASRWAVQLLLVAWSMCGEALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60

Db 1 MRARGFILLILLAVLCSTGVSLCYNCLDPV--SSCKTNSTCSPNLDAC--LVAVSGK 55

Qy 61 YPFNQSPVVTTRSCSSCVATPDSIGAHLIF-CCFRDLN 100

Db 56 QVYQCWRFS-DCNAKFILS---RLEITANVQVRCQADLCN 92

RESULT 4

RWHU59

surface glycoprotein CD59 precursor [validated] - human

N;Alternate names: iPS antigen protein; 20K homologous restriction factor (HRF20); CD59 a

C;Species: Homo sapiens (man)

C;Date: 30-Sep-1990 #sequence_revision 30-Sep-1990 #text_change 09-Jul-2004

C;Accession: A46252; J010109; A33405; J00134; A34587; S05504; S09201; A60828; PL00041; A60

R;Petranka, J.G.; Fleenor, D.E.; Sykes, K.; Kaufman, R.E.; Rosse, W.F.

Proc. Natl. Acad. Sci. U.S.A. 89, 7876-7879, 1992

A;Title: Structure of the CD59-encoding gene: further evidence of a relationship to murin

A;Reference number: A46252; MUID:92390353; PMID:1381503

A;Accession: A46252

A;Molecule type: DNA

A;Residues: 1-128 <PET>

A;Cross-references: UNIPROT:P13987; GB:M84349; GB:M82840; NID:g180149; PIDN:AAA88793.1;

A;Note: sequence extracted from NCBI backbone (NCBIN:112714, NCBIN:112718, NCBIN:112720,

R;Davies, A.; Simmons, D.L.; Hale, G.; Harrison, R.A.; Tighe, H.; Lachmann, P.J.; Waldma

[illegible]

A>Note: sequence extracted from NCBI backbone (NCBIP:il6104)
C:Comment: This 15K GPI-anchored surface antigen is found on B thymocytes and B cells.
C:Genetics:
A:Gene: Thb
A:Map position: 15
C:Superfamily: Ly-6 antigen; Ly-6 homology
C:Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-100/Domain: Ly-6 homology <LY6>
F:21-93/Product: phosphatidylinositol-anchored B-cell antigen Thb #status predicted <MAT>
F:94-127/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F:93/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 17.9%; Score 100.5; DB 1; Length 127;
Best Local Similarity 31.4%; Pred. No. 0.023;
Matches 32; Conservative 18; Mismatches 39; Indels 13; Gaps 6;

QY 6 AVQLLVAAWSMCGEALKYCKPEMTSASCRITTRCKPEDTACMTTLVTVEAEYPFNQ 65
 : ::|||:: ||::|: |::|: |::|: |::|: |::|: |::|: |::|: |::|: |
DB 4 ALLVLVAVATSPAWALRCHVC--TNSANCKNPQC-PSNFYFKTKTSVE---PLNG 56

QY 66 SPVTRSCESSCVATPDSDIG-----AAHLIFCCFRDLCNSEL 103
 : :|: |||: |::|: |::|: |::|: |::|: |::|: |::|: |::|: |
DB 57 N-LVRKECANSC-TSDYSQQGHVSSEVTTCCQTCLNENL 96

RESULT 6

A57321
E48 antigen precursor - human
N;Alternate names: desmoglein III
C;Species: Homo sapiens (man)
C;Date: 08-Dec-1995 #sequence_revision 16-Aug-1996 #text_change 09-Jul-2004
C;Accession: A57321
J.Brakenhoff, R.H.; Gerretsen, M.; Knippels, E.M.C.; van Dijk, M.; van Essen, H.; Olde W.
R. Cell Biol. 129, 1677-1689, 1995
A>Title: The human E48 antigen, highly homologous to the murine Ly-6 antigen Thb, is a Q
A;Reference number: A57321; UID:95310346; PMID:7790363
A;Accession: A57321
A>Status: not compared with conceptual translation
A:Molecule type: mRNA
A;Residues: 1-128 <BRA>
A;Cross-references: UNIPROT:Q14210; GB:X82693; NID:g887453; PIDN:CAA58014.1; PID:g887454
A>Note: parts of this sequence, including the amino end of the mature protein, were conf
C;Genetics:

A:Map position: 8q24-qter
C:Superfamily: Ly-6 antigen; Ly-6 homology
C:Keywords: blocked carboxyl end; cell adhesion; glycoprotein; lipoprotein; phosphatidy
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-100/Domain: Ly-6 homology <LY6>
F:21-93/Product: E48 antigen #status predicted <MAT>
F:23-45,26-32,38-63,67-86,92/Disulfide bonds: #status predicted
F:93/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 17.9%; Score 100.5; DB 1; Length 128;
Best Local Similarity 31.1%; Pred. No. 0.023;
Matches 33; Conservative 16; Mismatches 32; Indels 25; Gaps 7;

QY 9 LLLVAWSMGCEA--LKCYTCPEMTSASCRITTRCKPEDTACMTTLVTVEAEYPNQ 66
 ||::|: |::|: |::|: |::|: |::|: |::|: |::|: |::|: |::|: |
DB 5 LLLLAALAVATGALTALRCHVC---TSSSNCKHSWVCPASSRFCKTT-NTVE---PL-RG 56

QY 67 PVSTRCSSC-----VATDPDSIGAHLIFCCFRDLCNSEL 103
 : :|: |||: |::|: |::|: |::|: |::|: |::|: |::|: |::|: |
DB 57 NLVKDKCAESCTPSYTLOGGVSGTSTSQ-----CQEDLCNEKL 96

RESULT 7

I54553
gene Thb protein - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 23-Jul-1999
C;Accession: I54553
B.Gumlev, T.P.; McKenzie, J.F.; Sandrin, M.S.

Immunogenetics 42, 221-224, 1995
A;Title: Sequence and structure of the mouse ThB gene.
A;Reference number: 154553; MUID:95369850; PMID:7642235
A;Accession: I54553
A;Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A;Residues: 1-130 <RES>
A;Cross-references: GB:L40419; NID:g1019624; PIDN:AAA79249.1; PID:g1019625
C:Genetics:
A;Gene: ThB
A;Introns: 21/1; 54/1
C:Superfamily: Ly-6 antigen; Ly-6 homology
F:24-103/Domain: Ly-6 homology <LY6>

Query Match 17.9%; Score 100.5; DB 2; Length 130;
Best Local Similarity 31.4%; Pred. No. 0.024;
Matches 32; Conservative 18; Mismatches 39; Indels 13; Gaps 6;

QY 6 AVOLLVAAWSMGCCEALKYCTCKEPMTSASRTITRCKPEDTACMTTLVTVEAEYPNQ 65
| : | | | : | | : | | : | | : | | : | | : | |
DB 7 ALLVLVLA VASPALARCHVC--TSANCKNPQVC-PSNFYFCKTVTSVE---PLNG 59

QY 66 SPVTRSCSSSVATPDPSIG---AAHLFFCCFRDLCSNL 103
| : | : | | : | | : | | : | | : | | : | | : | |
DB 60 N-LVRKCANSC-TSDYSQQGHVSGSEVTQCQTDLNERL 99

RESULT 8
I36914
CD59 protein - baboon
C;Species: Papio sp. (baboon)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 09-Jul-2004
C;Accession: I36914
R;Podor, W.L.; Rollins, S.A.; Bianco-Caron, S.; Burton, W.V.; Guilmette, E.R.; Rother, F.
Immunogenetics 41, 51, 1995
A;Title: Primate terminal complement inhibitor homologues of human CD59.
A;Reference number: I36894; MUID:95104908; PMID:7528724
A;Accession: I36914
A;Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A;Residues: 1-126 <RES>
A;Cross-references: UNIPROT:Q28785; GB:L22862; NID:g514327; PIDN:AAA74127.1; PID:g514328
C:Superfamily: Ly-6 antigen; Ly-6 homology
F:26-100/Domain: Ly-6 homology <LY6>

Query Match 17.7%; Score 99; DB 2; Length 126;
Best Local Similarity 29.2%; Pred. No. 0.031;
Matches 28; Conservative 16; Mismatches 42; Indels 10; Gaps 5;

QY 9 LLLVAAWSMGCGBALKCYCKEPMTSASRTITRCKPEDTACMTTLVTVEAEYPNQSPV 68
||| : | | : | | : | | : | | : | | : | | : | |
DB 12 LLLALA VFCHSHGLQYCNCNPETT--NCKTAINCSSGFDTC LIARAGLVQV---YNQWK 66

QY 69 VTSCSSSVATPDPSIGAHL-IFCCFRDLCSNL 103
| : | : | : | : | : | | | | | | | | | | | |
DB 67 FA-NCNFDNST---LLKESELQYFCCKEDLCNEQL 98

RESULT 9
I36894
CD59 protein - green monkey
C;Species: Cercopithecus aethiops (green monkey, grivet)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 09-Jul-2004
C;Accession: I36894
R;Podor, W.L.; Rollins, S.A.; Bianco-Caron, S.; Burton, W.V.; Guilmette, E.R.; Rother, F.
Immunogenetics 41, 51, 1995
A;Title: Primate terminal complement inhibitor homologues of human CD59.
A;Reference number: I36894; MUID:95104908; PMID:7528724
A;Accession: I36894
A;Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A;Residues: 1-128 <RES>
A;Cross-references: UNIPROT:Q28216; GB:L22863; NID:g514314; PIDN:AAA74126.1; PID:g514315

C;Comment: This glycoprotein contains O-linked rather than N-linked carbohydrate.
C;Genetics:
A;Gene: ly-6; LYGA.2; Ly-6Ab
A;Introns: 24/1; 63/1
A;Note: allele ly-6(b)e
A;Superfamily: Ly-6 antigen; Ly-6 homology
C;Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linked
F;1-26/Domain: signal sequence #status predicted <SIG>
F;1-105/Product: Ly-6.2 protein #status predicted <MAT>
F;106-134/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;105/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 16.2%; Score 90.5; DB 2; Length 134;
Best Local Similarity 28.2%; Pred. No. 0.2; Mismatches 15; Gaps 5;
Matches 29; Conservative 15; Indels 21; Gaps 5;

QY 9 LLLVAASMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMT--FLVTVEAEYPPNQ 66
Db 13 ILLVALLCAERAQGLECYQCVGFETSCPSIT-CPYPDGVGVQEAVIDSQ----- 65

QY 67 PVVTRSCSS--CVATDPDSIGAAHLI-----FCCFRDLN 100
Db 66 ---TRKVNLLCLPICPPNIESBILGTKNVKTSCQEDLCN 105

RESULT 13
S03864
fasciotoxin - banded krait
C;Species: Bungarus fasciatus (banded krait)
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 09-Jul-2004
C;Accession: S03864
R;Li, C.S.; Hsiao, P.W.; Chang, C.S.; Tzeng, M.C.; Lo, T.B.
Biochem. J. 259, 153-158, 1989
A;Title: Unusual amino acid sequence of fasciotoxin, a weak reversibly acting neurotoxin
A;Reference number: S03864; MUID:89246298; PMID:2719639
A;Accession: S03864
A;Molecule type: protein
A;Residues: 1-83 <Lfu>
A;Cross-references: UNIPROT:P14534
C;Superfamily: snake toxin

Query Match 16.1%; Score 90; DB 2; Length 63;
Best Local Similarity 30.8%; Pred. No. 0.12; Mismatches 5; Gaps 3;
Matches 24; Conservative 5; Indels 22; Gaps 3;

QY 23 LKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVVEAEYPPNQSPVVTRSCSSCVATDP 82
Db 1 LKCHKAQFPNIETQCKWQTLCPQDVK-----PHPSMIVLRGCTSSC----- 43

QY 83 DSIGAAHLIFCCFRDLN 100
Db 44 -GKGA---MCCATDLN 56

RESULT 14
I49013
thymic shared antigen-1 - mouse
N;Alternate names: Sca-2 precursor; TSA-1
C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C;Accession: I49013; I48910
R;MacNeil, I.; Kennedy, J.; Godfrey, D.I.; Jenkins, N.A.; Masciantonio, M.; Mineo, C.; J. Immunol. 151, 6913-6923, 1993
A;Title: Isolation of a cDNA Encoding Thymic Shared Antigen-1: A New Member of the Ly6 F
A;Reference number: I49013; MUID:94081342; PMID:8258699
A;Accession: I49013
A;Status: translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-136 <RES>
A;Cross-references: UNIPROT:Q99JAS; EMBL:U09192; NID:9487390; PIDN:AAB03366.1; PID:94873
R;Classon, B.J.; Coverdale, L.
Proc. Natl. Acad. Sci. U.S.A. 91, 5296-5300, 1994
A;Title: Mouse stem cell antigen Sca-2 is a member of the Ly-6 family of cell surface pr

A;Reference number: I48910; MUID:94261572; PMID:8202484
A;Accession: I48910
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-136 <RE2>
A;Cross-references: EMBL:U04268; NID:9434659; PIDN:AAA19121.1; PID:9434660
C;Comment: This belongs to the Ly-6 family, a group of small cysteine-rich cell surface
C;Superfamily: Ly-6 antigen; Ly-6 homology

Query Match 15.8%; Score 88.5; DB 2; Length 136;
Best Local Similarity 24.7%; Pred. No. 0.3; Mismatches 20; Indels 9; Gaps 4;
Matches 24; Conservative 20; Mismatches 44; Indels 9; Gaps 4;

QY 9 LLLVAASMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVVEAEYPP---NQ 65
Db 13 VLLAALLGMEQVHSLMCFSCCTDQKNINCLWPVSCQEKHYC----ITLSAAAGFGNVNL 68

QY 66 SPVVTSCSSCVATDPD-SIGAAHL-IFCCFRDLN 100
Db 69 GYTLNRKCSPICPSENVLNLGVASVNSYCCQSSFCN 105

RESULT 15
I48640
neurotoxin homolog - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C;Accession: I48640
R;Fleming, T.J.; O'Huigin, C.; Malek, T.R.
J. Immunol. 150, 5379-5390, 1993
A;Title: Characterization of two novel Ly-6 genes. Protein sequence and potential struct
A;Reference number: I48639; MUID:93294293; PMID:8515066
A;Accession: I48640
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-111 <RES>
A;Cross-references: UNIPROT:P35461; EMBL:X70920; NID:9394731; PIDN:CAA50269.1; PID:98179
C;Genetics:
A;Gene: Ly-6G.1
A;Introns: 40/1
C;Superfamily: Ly-6 antigen; Ly-6 homology

Query Match 15.6%; Score 87.5; DB 2; Length 111;
Best Local Similarity 29.4%; Pred. No. 0.32; Mismatches 13; Indels 7; Gaps 4;
Matches 25; Conservative 13; Mismatches 40; Indels 7; Gaps 4;

QY 21 EALCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVVEAEYPPNQSPVVTRSCSSCVAT 80
Db 2 QGLECYNCIGVPPETSCNT-TTCPPSDGFCVA--LEIEIVDSHRSKVKSLNCLPICPTT 58

QY 81 --DPDSIGAAHLI--FCCFRDLN 101
Db 59 LDNTEITGNVNVKTYCKEDLCNA 83

RESULT 16
A25708
Ly-6.1 protein precursor - mouse
N;Alternate names: Ly-6E.1
C;Species: Mus musculus (house mouse)
C;Date: 21-May-1988 #sequence_revision 21-May-1988 #text_change 09-Jul-2004
C;Accession: A25708
R;LeClair, K.P.; Palfree, R.G.E.; Flood, P.M.; Hammerling, U.; Bothwell, A.
EMBO J. 5, 3227-3234, 1986
A;Title: Isolation of a murine Ly-6 cDNA reveals a new multigene family.
A;Reference number: A25708; MUID:87133482; PMID:3028776
A;Accession: A25708
A;Molecule type: mRNA
A;Residues: 1-134 <LEC>
A;Cross-references: UNIPROT:P05533; GB:X04653; NID:952958; PIDN:CAA28351.1; PID:952959
C;Comment: This glycoprotein contains O-linked rather than N-linked carbohydrate.
C;Genetics:
A;Gene: ly-6

[illegible]

Query Match	15.6%;	Score 87.5;	DB 2;	Length 145;
Best Local Similarity	26.3%;	Pred. No. 0.39;		
Matches	25;	Conservative 16;	Mismatches 43;	Indels 11; Gaps 4;
Qy	7	VOLLVAAWSMCGGALKCYTCKEPTWTSASCRITTRCKPEDTACMTTLVTVEAEYFNQS	66	
	:	:	:	:
	:	:	:	:
Db	2	LRFLLLATCAVGVANAICYNSCDDFVSCGS--FITQCPRHSGCYTMTTN-----FGQT	53	
	:	:	:	:
	:	:	:	:
Qy	67	PWTRSCSSCVATDPDSIGAAHLIFCCFRDLNS	101	
	:	:	:	:
	:	:	:	:
Db	54	-VISKGCAGHDCQNLPPRE--GAHCLLCKGLDFCNS	85	
	:	:	:	:
	:	:	:	:

RESULT 18
I48639
neurotoxin homolog - mouse
C:Species: Mus musculus (house mouse)
C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I48639
R:Fleming, T.J.; O'Huigin, C.; Malek, T.R.
J. Immunol. 150, 5379-5390, 1993
A:Title: Characterization of two novel Ly-6 genes. Protein sequence and potential structure
A:Reference number: I48639; MUID:93294293; PMID:8515066
A:Accession: I48639
A:Status: preliminary; translated from GB/EMBL/DBSJ
A:Molecule type: DNA
A:Residues: 1-134 -RES>
A:Cross-references: UNIPROT:P35460; EMBL:X70922; NID:G394727; PIDN:CAA50270.1; PID:98179
C:Genetics:
A:Gene: Ly-6F.1
A:Introns: 24/1; 63/1
C:Superfamily: Ly-6 antigen; Ly-6 homology

[illegible]

```
Query Match      15.3%   Score 85.5; DB 2; Length 84;  
Best Local Similarity 27.6%; Pred. No. 0.39;  
Matches 27; Conservative 19; Mismatches 37; Indels 15; Gaps 5;
```

Qy 4 RWAVQLLLVAANSMGCEALKCVCYCKEPMWTSASCRITTRCPEDTACMTTLTVVEAYEPF 63
 | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 2 RYAIVFFLVCVITL--GEALKCNV---LQANGIKWTQCAREDTKCL-TLRSLKKTLPF 54

Qy 64 NQSPVVTRSCSSCVATDPDSIGAHLIFCCPRDLCSN 101

Db 55 CAS- --GRCTCTMKINSLP-----GEQITTCGGNCNA 84

RESULT 20
I56894
complement regulatory protein - common squirrel monkey
C:Species: Saimiri sciureus (common squirrel monkey)
C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I56894
R:Rothen, R.P.; Kollins, S.A.; Fodor, W.L.; Albrecht, J.C.; Setter, E.; Fleckens
J. Virol. 68, 730-737, 1994
A:Title: Inhibition of complement-mediated cytolysis by the terminal complement
A:Reference number: I56894; MUID:94118421; PMID:7507185
A:Accession: I56894
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-131 <RES>
A:Cross-references: UNIPROT:P47777; GB:I22859; NID:G404796; PIDN:AAA16747.1; PID
C:Genetics:
A:Gene: CD59
C:Superfamily: Ly-6 antigen; Ly-6 homology
F:26-105/Domain: Ly-6 homology <LY6>

	Query Match	14.7%;	Score 82.5;	DB 2;	Length 131;	
	Best Local Similarity	27.8%;	Pred. No. 1;			
	Matches	27;	Conservative	13;	Mismatches	42; Indels 15; Gaps 5;
QY	9	LLLVAAWSMGGEALKVCTCKREP-MTSASCRITTRCKPEDTACMTTLTVRAEY---	PFN 64			
		: : :	:	:	:	:
Db	12	LLLLVLAVFCHSGNSQQCTSCPLPTWSECTASTNCLSDLIKAGSGVYYRCWKFPD	71			
		: : :	:	:	:	:
QY	65	OSPVVTTRSCSSCVATDPDSIGAAHLIF-CCFRDLGN	100			
		: : :	:	:	:	:

Db 72 -----DCSFKRIS----NOLSETQLKYHCKKNLCN 98

RESULT 21

A45835

Ly6 homolog RK10 precursor - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 03-Mar-1994 #sequence_revision 03-Mar-1994 #text_change 09-Jul-2004

C;Accession: A45835; B45835

R;Friedman, S.; Palfrey, R.G.E.; Sirlin, S.; Haemmerling, U.

Immunogenetics 31, 104-111, 1990

A;Title: Analysis of three distinct Ly6-A-related cDNA sequences isolated from rat kidney

A;Reference number: A45835; MUID:90152758; PMID:2154400

A;Accession: A45835

A;Molecule type: mRNA

A;Residues: 1-135 <FRI>

A;Cross-references: UNIPROT:Q63317; GB:M30689; NID:G205247; PIDN:AAA41546.1; PID:G205248

A;Experimental source: clone RK10

A;Accession: B45835

A;Molecule type: mRNA

A;Residues: 25-54, 'A', 56-62, 'M', 64-67, 'Q', 69-71, 'DHI', 75-77, 'V', 79-80, 'T', 82-85, 'T', 87, 'A'

A;Cross-references: GB:M30682; NID:G205245; PIDN:AAA41545.1; PID:G205246

A;Experimental source: clone RK6

C;Superfamily: Ly-6 antigen; Ly-6 homology

C;Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage

F;1-26/Domain: signal sequence #status predicted <SIG>

F;106/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 14.6%; Score 82; DB 2; Length 135;

Best Local Similarity 26.0%; Pred. No. 1.2;

Matches 27; Conservative 14; Mismatches 57; Indels 6; Gaps 4;

Qy 2 ASRNAVQLLLVAANSMGCEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEY 61

Db 6 AMKSCVLLLLALLCAERAOGLNCVMTIPFGNCTSTATCPYDGVG--TIQVAEVVV 63

Qy 62 PFNGSPVTRGSSCVAT--DPDSIG-AAHL-IFCCFRDLCS 101

Db 64 SSVRLKWSNLCLPGCPKSPQTPVELGVTHVHTDCNTDLCA 107

RESULT 22

JN0561

urokinase-type plasminogen activator receptor precursor - bovine

C;Species: Bos primigenius taurus (cattle)

C;Date: 31-Dec-1993 #sequence_revision 06-Sep-1996 #text_change 09-Jul-2004

C;Accession: JN0561; I46977

R;Kraetzschmar, J.; Haendler, B.; Kojima, S.; Rifkin, D.B.; Schleuning, W.D.

Gene 125, 177-183, 1993

A;Title: Bovine urokinase-type plasminogen activator and its receptor: cloning and induction

A;Reference number: JN0560; MUID:93216119; PMID:8385052

A;Accession: JN0561

A;Molecule type: mRNA

A;Residues: 1-330 <KRA>

A;Cross-references: UNIPROT:Q05588; GB:L03545; NID:G163802; PIDN:AAA30802.1; PID:G163803

R;Reuning, U.; Little, S.P.; Dixon, E.P.; Johnstone, E.M.; Bang, N.U.

Thromb. Res. 72, 59-70, 1993

A;Title: Molecular cloning of cDNA for the bovine urokinase-type plasminogen activator

A;Reference number: I46977; MUID:94167671; PMID:8122188

A;Accession: I46977

A;Status: translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-330 <REU>

A;Cross-references: GB:S70635; NID:G545770; PIDN:AAB30120.1; PID:G545771

C;Superfamily: urokinase-type plasminogen activator receptor; Ly-6 homology

C;Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage

F;1-20/Domain: signal sequence #status predicted <SIG>

F;21-300/Product: urokinase-type plasminogen activator receptor #status predicted <MAT>

F;21-104/Domain: Ly-6 homology <LY6>

F;113-201/Domain: Ly-6 homology <LY6>

F;209-296/Domain: Ly-6 homology <LY6>

F;301-330/Domain: carboxyl-terminal propeptide #status predicted <CPRO>

F;28,72,179,189,279/Binding site: carbohydrate (Asn) (covalent) #status predicted

F;300/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Gly) (in mature form)

Query Match 14.3%; Score 80; DB 1; Length 330;

Best Local Similarity 31.7%; Pred. No. 3.5;

Matches 33; Conservative 11; Mismatches 34; Indels 26; Gaps 8;

Qy 9 LLLVAANSMGCEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNOSP 67

Db 8 LLLVYTYIFG-SWGLRCLQCE---NTISC-SVEECTPGQDLCKTTLVLSWEGG---NEMN 59

Qy 68 VVTRSCSSSCVATDPD-----SIGAAHLIF-----CCFRDLCLN 100

Db 60 VVRKGC-----THPDKTRMSYRAADQIITLSETVCRSDLCN 97

RESULT 23

V6N13E

venom protein CM-13b - cobra (Naja haje annulifera)

C;Species: Naja haje annulifera

C;Date: 22-Jun-1981 #sequence_revision 22-Jun-1981 #text_change 09-Jul-2004

C;Accession: A01670

R;Joubert, F.J.

Hope-Seyler's Z. Physiol. Chem. 356, 1901-1908, 1975

A;Title: Snake venom toxins. The purification and amino acid sequence of toxin CM-13b from

A;Reference number: A01670; MUID:76119554; PMID:1213685

A;Accession: A01670

A;Molecule type: protein

A;Residues: 1-65 <JOU>

A;Cross-references: UNIPROT:P01399

A;Note: the intravenous LD50 value for mouse is 4.82 micrograms/gram body weight

C;Superfamily: snake toxin

C;Keywords: venom

F;3-11,6-42,17-24,46-57,58-63/Disulfide bonds: #status predicted

Query Match 14.1%; Score 79; DB 1; Length 65;

Best Local Similarity 24.4%; Pred. No. 1.3;

Matches 20; Conservative 10; Mismatches 30; Indels 22; Gaps 4;

Qy 23 LKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNOSPVV-----TRSCSSCV 78

Db 1 LTCFNCFE---VVCNRFHFCRNGEKICFKR-----FNERKLLGKRYTRGCAATCP 47

Qy 79 ATDPDSIGAAHLIFCCFRDLCLN 100

Db 48 VAKPREI-----VECCSTDRCN 64

RESULT 24

T16553

hypothetical protein K04C2.4 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004

C;Accession: T16553

R;Pauley, A.

submitted to the EMBL Data Library, April 1994

A;Description: The sequence of C. elegans cosmid K04C2.

A;Reference number: Z18534

A;Accession: T16553

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-653 <PAU>

A;Cross-references: UNIPROT:Q21209; EMBL:U00044; NID:G470346; PID:G470351; PIDN:AAAS0679

A;Experimental source: strain Bristol N2

C;Genetics:

A;Gene: CESP:K04C2.4

A;Introns: 21/2; 41/2; 97/3; 156/2; 176/2; 186/3; 289/3; 361/1; 428/1; 460/3; 499/2; 552

Query Match 13.8%; Score 77.5; DB 2; Length 653;

Best Local Similarity 26.4%; Pred. No. 9.8;

Matches 23; Conservative 11; Mismatches 38; Indels 15; Gaps 3;

Qy 22 ALKCYTCKE-----MTSASCRITTRCKPEDTACMTTLVTVEAEYFPNOSPVTTRSCSS 76

Db 15 AIECVKCKPRGDIQYLGSCK-----HAYCWECIATFQQPKSRSSVAHMCPCSC 66
QY 77 CVATDPDSIGAHLIFCCFRDLNSEL 103
Db 67 AFPLDTSKITEAHMLKTCFDTL--SEL 91

RESULT 25

V6N31Y
venom protein CM-11 - Egyptian cobra
C;Species: Naja haje haje (Egyptian cobra)
C;Date: 31-Oct-1979 #sequence_revision 31-Oct-1979 #text_change 09-Jul-2004
C;Accession: A01672
R;Joubert, F.J.; Taljaard, N.
Eur. J. Biochem. 90, 359-367, 1978
A;Title: Naja haje haje (Egyptian cobra) venom. Some properties and the complete primary
A;Reference number: A91255; MUID:79045337; PMID:710433
A;Accession: A01672
A;Molecule type: protein
A;Residues: 1-65 <JOU>
A;Cross-references: UNIPROT:P01401
C;Superfamily: snake toxin
C;Keywords: venom
F;3-11,6-42,17-24,46-57,58-63/Disulfide bonds: #status predicted

Query Match 13.8%; Score 77; DB 1; Length 65;
Best Local Similarity 24.4%; Pred. No. 1.9;
Matches 20; Conservative 10; Mismatches 30; Indels 22; Gaps 4;
QY 23 LKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNOSPVV-----TRSCSSSCV 78
Db 1 LTCLICPEKY-----CNKVHTRNGENOCFKR-----FNERKLLGKRYTRGCAATCP 47
QY 79 ATDPDSIGAHLIFCCFRDLN 100
Db 48 EAKPREI-----VECCTTDRCN 64

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Job time : 42 secs

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